

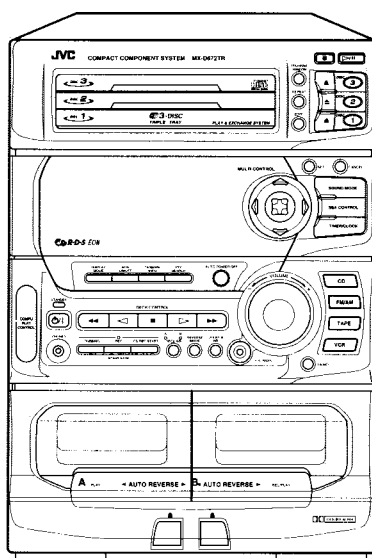
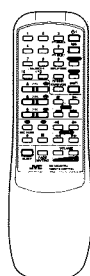
JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

CA-D672TR

Cassette Mechanism NEXT-W2M
CD Traverse Mechanism V3-2
Optical Pickup OPTIMA-150S
CD Signal Processor MN35510



COMPACT
disc
DIGITAL AUDIO

R·D·S EON

Area Suffix

B ----- U.K.
E ----- Continental Europe
EE ----- Eastern Europe
EN ----- Northern Europe

MX-D672TR

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Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

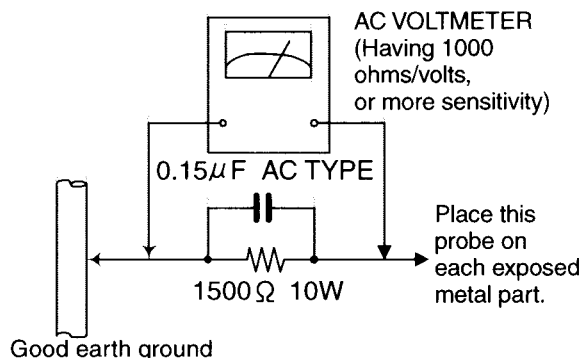
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)

● Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

CAUTION Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

Important for Laser Products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

WARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstrålning ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstrålning ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

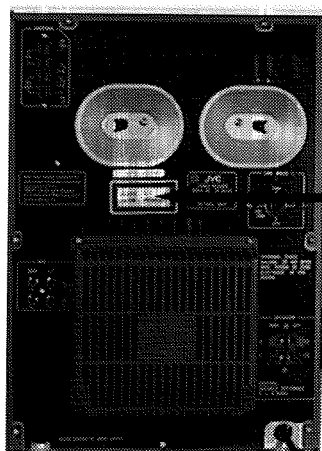
(A/E/UB Only)

ADVARSEL : Usynlig laserstrålning ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)

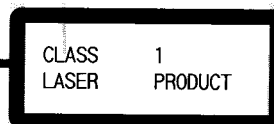
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (d)

DANGER : Invisible laser radiation when open and interlock or defeated. AVOID DIRECT EXPOSURE TO BEAM (e)

WARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)



CA-D622T Rear Panel



Instructions

Warnings, Cautions and Others / Warnung, Achtung und sonstige Hinweise / Mises en garde, précautions et indications diverses / Waarschuwingen, voorzorgen en andere mededelingen / Avisos, precauciones y otras notas / Avvertenze e precauzioni da osservare

Caution — ⚡ switch!

Disconnect the mains plug to shut the power off completely. The ⚡ switch in any position does not disconnect the mains line. The power can be remote controlled.

Achtung — ⚡-Schalter!

Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der Schalter ⚡/I unterbricht in keiner Stellung die Stromversorgung vollkommen. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

Attention — Commutateur ⚡/I

Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur ⚡/I ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

Voorzichtig! — ⚡/I schakelaar!

Om de stroomvoorziening geheel uit te schakelen, trekt u de stecker uit het stopcontact. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de ⚡/I schakelaar. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

Precaución — Interruptor ⚡/I

Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del interruptor ⚡/I, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

Attenzione — L'interruttore ⚡/I

Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore ⚡/I in nessuna posizione stacca la linea di alimentazione elettrica principale. È possibile il controllo remoto dell'alimentazione.

IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below.

IMPORTANT:

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

Per l'Italia:

"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n. 548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n. 301 del 28/12/95."

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ACHTUNG

Zur Vermeidung von elektrischen Schlägen, Brandgefahr, usw.:

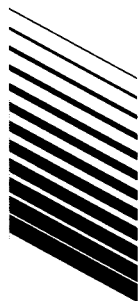
1. Die Schrauben, Böden oder Abdeckungen entfernen und das Gehäuse nicht öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

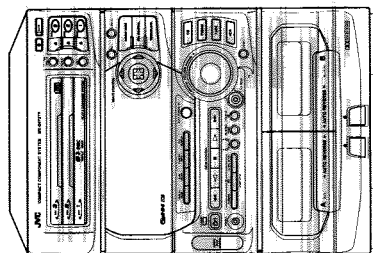
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

G-1



COMPACT COMPONENT SYSTEM
KOMPACTES KOMONENTENSYSYSTEM
SYSTEME DE COMPOSANTS COMPACT
KOMPACTO KOMPONENTEN-SYSTEEM
SISTEMA DE COMPONENTES COMPACT
IMPIANTO A COMPONENTI COMPACTO

CA-D672TR



COMPACT disc
DIGITAL AUDIO

CORDS EON

INSTRUCTIONS
BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTION
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI

For Customer Use:

Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

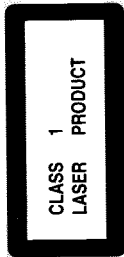
Serial No. _____

GVT0001-006A
[E]

IMPORTANT FOR LASER PRODUCTS/ WICHTIGER HINWEIS FÜR LASER-PRODUKTE / IMPORTANT POUR LES PRODUITS LASER / BELANGRIJKE INFORMATIE VOOR LASER-PRODUCTEN / IMPORTANTE PARA LOS PRODUCTOS LASER / IMPORTANTE PER I PRODOTTI LASER

REPRODUCTION OF LABELS/ANBRINGINGSORTE FÜR LASER-PRODUKTE/REPRODUCTION DES ETIQUETTES/ VERKLARING VAN DE LABELS/RIPRODUZIONE DELLE ETICHETTE

1. CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE
2. CLASSIFICATION LABEL, PLACED INSIDE THE UNIT
1. ETIQUETTE DE CLASSIFICATION, PLACÉE A L'ARRIÈRE DU COFFRET
2. ETIQUETTE D'AVERTISSEMENT PLACÉE A L'INTERIEUR DE L'APPAREIL
1. ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD
2. ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD
1. ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO DELL'APPARECCHIO
2. ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO DELL'APPARECCHIO



WARNING: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.	AVVERTENZA: Quando l'apertura del coperchio non funziona, il blocco di sicurezza potrebbe essere bypassato. Evitare l'esposizione diretta al raggio laser.	AVVERTING: Wanneer het deksel niet open gaat, kan het veiligheidsmechanisme er niet voor zorgen dat de straal niet ontstaat. Vermijd de straal.	AVVERTISSEMENT: Lorsque l'appareil est ouvert, le dispositif de sécurité à l'arrêt, l'exposition directe au rayon laser est possible. Éviter l'exposition directe au rayon laser.
10/2004M	10/2004M	10/2004M	10/2004M

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.
1. KLAS 1 LASERPRODUKT
2. GEVAARLIJK: Onzichtbare laserstraling wanneer open en de beveiliging laait of uitgeschakeld is. Voorkom het direct blootstaan aan de straal.
3. VOORZICHTIG: De bovenkap niet openen. Binnenin het toestel bevinden zich geen door de gebruiker te repareren onderdelen: laat onderhoud over aan bekwame vakpersoneel.
1. PRODUCTO LASER CLASE 1
2. PELIGRO: En el interior hay radiación láser invisible. Evite el contacto directo con el haz.
3. PRECAUCIÓN: No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.
1. PRODOTTI LASER CLASSE 1
2. PERICOLO: Radiazione laser invisibile quando l'apparecchio è aperto e il dispositivo di sicurezza è disattivo. Evitare l'esposizione diretta al raggio laser.
3. ATTENZIONE: Non aprire il coperchio superiore. Non vi sono parti addeparabili dall'utente all'interno di questo apparecchio; lasciare tutti i controlli a personale qualificato.

Voorzichtig: Goede ventilatie vereist
On brand, elektrische schokken en beschadiging te voorkomen, moet u het toestel als volgt opstellen:

1. Voorkant: Geen belemmeringen in voldoende ruimte.
2. Zijkanten/boven-/onderkant: Geen belemmeringen plaatsen in de hieronder aangegeven zones.
3. Onderkant: Op vlakke ondergrond plaatsen. Voldoende ventilatieruimte voorzien door het toestel op een onderstel met een hoogte van 10 cm of meer te plaatsen.

Precaución: ventilación correcta
Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:

1. Parte frontal: Sin obstrucciones, espacio abierto.
2. Lados/parte superior/parte posterior: No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
3. Parte inferior: Sitúe el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, situando el equipo sobre un soporte de 10 o más cm de altura.

Attenzione: Per una corretta ventilazione
Per prevenire il rischio di scosse elettriche e di incendio ed evitare possibili danni, collocare le apparecchiature nel modo seguente:

1. Parte anteriore: Nessun ostacolo e spazio libero.
2. Lati/Parte superiore/Retiro: Lasciare libere le zone indicate dalle dimensioni di seguito.
3. Base: Collocare su una superficie piana. Consentire un'adeguata ventilazione dell'impianto appoggiandolo su un tavolino alto almeno 10 cm.

Caution: Proper Ventilation
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

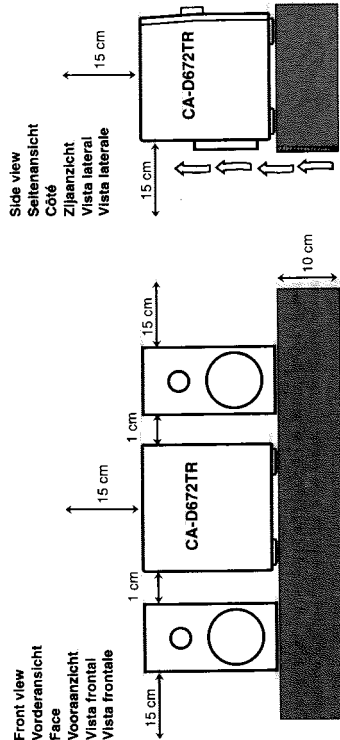
1. Front: No obstructions and open spacing.
2. Sides/ Top/ Back: No obstructions should be placed in the areas shown by the dimensions below.
3. Bottom: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

Achtung: Ausreichende Belüftung
Zur Vermeidung von elektrischen Schlägen, Feuer und sonstigen Schäden sollte das Gerät unter folgenden Bedingungen aufgestellt werden:

1. Vorderseite: Hindernisfrei und gut zugänglich.
2. Seiten- und Rückwände: Hindernisfrei in allen gegebenen Abständen (s. Abbildung).
3. Unterseite: Die Stellfläche muß absolut eben sein. Sorgen Sie für ausreichende Luftzufuhr durch Aufstellung auf einem Stand mit mindestens 10 cm Höhe.

Attention: Aération correcte
Pour prévenir tout risque de décharge électrique ou d'incendie et éviter toute détérioration, installez l'appareil de la manière suivante:

1. Avant: Bien dégagé de tout objet.
2. Côtés/dessous: Assurez-vous que rien ne bloque les espaces indiqués sur le schéma ci-dessous.
3. Dessous: Posez l'appareil sur une surface plane et horizontale. Veillez à ce que sa ventilation correcte puisse se faire en le plaçant sur un support d'au moins dix centimètres de hauteur.



G-3

G-2

Thank you for purchasing the JVC Compact Component System.

We hope it will be a valued addition to your home, giving you years of enjoyment. Be sure to read this instruction manual carefully before operating your new stereo system. Here you will find all the information you need to set up and use the system. For questions that are not answered in the manual, please contact your dealer.

Features

Easy operation

- Here are some of the things that make your CA-D672TR powerful and easy to use.
 - The controls and operations have been redesigned to make them very easy to use so you can spend your time listening to music.

COMPU PLAY

- With the One Touch Operation feature of JVC's **COMPU PLAY** you can turn on the CA-D672TR and start the radio, the Cassette Deck, or the CD Player with a single touch.
- You can use the MULTI CONTROL stick to set the CD Player, Tuner, Timer, and Sound Mode operations.

Great sound

- To get such great sound from such a compact package the CA-D672TR has:
 - Programmed sound mode includes live surround effects **D. CLUB HALL** and **STADIUM**. It also includes S.E.A. (Sound Effect Amplifier) effects **ROCK, POP**, and **CLASSIC**. You can also register up to three customized settings.

RDS EON

- CA-D672TR is compatible with RDS (Radio Data System) broadcasting.
- The EON data enables you to standby for desired information.
- In addition, Radio Text can be displayed using data sent by station.
- CD Search function can operate 3 discs.

Triple Tray

- Discs can be changed during play using the **TRIPLE TRAY**.

Three timers

- The three timers, **DAILY Timer**, **REC (Recording) Timer**, and **SLEEP Timer** are extremely easy to set.
- The Displays are large and clear. They are organized so you can tell at a glance what's happening because functions light up as you use them, and blink to tell you they are ready. They provide some important messages like "NO DISC", and other informations.

How This Manual Is Organized

In this manual we have incorporated some special features:

- Basic information that is the same for many different functions is grouped in one place, and not repeated in each procedure. For instance, in the section on playing a CD, we do not repeat the information about setting the volume and the sound conditions, which are discussed in the Using the Amplifier section.
 - Name of buttons and controls are written in all capital letters like this: **SOUND MODE**.
 - When we are talking about the Function, rather than the **BUTTON** or **DISPLAY**, only the first letter is capitalized. The manual has a table of contents to help you quickly look up what you want to know.
- We've enjoyed making this manual for you, and hope you will use it to enjoy the sound and many features built into your CA-D672TR.

IMPORTANT CAUTIONS

1. Installation of the Unit

- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F.)
- Leave sufficient distance between the Unit and a TV.
- Do not use the Unit in a place subject to vibrations.

2. Power cord

- Do not handle the power cord with wet hands!
- Some power (24 watts) is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the Unit from the wall outlet, always pull the plug, not the power cord.

3. Malfunctions, etc.

- There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the Unit.

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Getting Started

Accessories

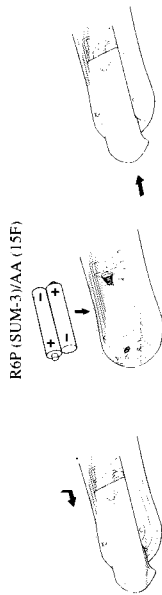
Check that you have all of the following items, which are supplied with the CA-D672TR.

- AM (MW/LW) Loop Antenna (1)
- Remote Control (1)
- Batteries (2)
- FM Wire Antenna (1)

If any of these items is missing, contact your dealer immediately.

How To Put Batteries In the Remote Control

Match the polarity (+ and -) on the batteries with the + and - markings in the battery compartment.

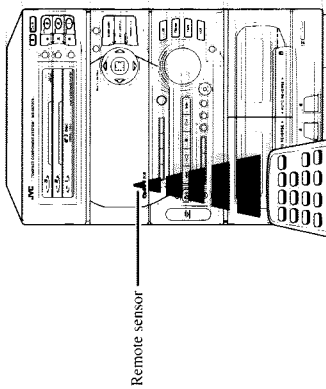


CAUTION: Handle batteries properly.

- To avoid battery leakage or explosion:
- Remove batteries when the Remote Control will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery with a new one.
- Don't use different types of batteries together.

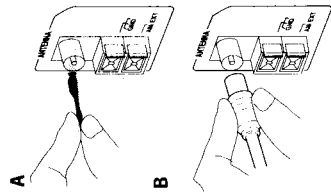
Using the Remote Control

The Remote Control makes it easy to use many of the functions of the CA-D672TR from a distance of up to 7m (23 feet) away. You need to point the Remote Control at the remote sensor on the CA-D672TR's front panel.



CAUTION: Make all connections before plugging the Unit into an AC power outlet.

Connecting the FM Antenna

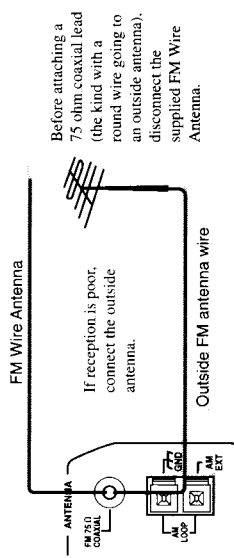


A. Using the Supplied Wire Antenna

The FM Wire Antenna provided can be connected to a FM 75-ohm COAXIAL as temporary measure. Extend the supplied wire antenna horizontally.

B. Using the Coaxial Type Connector (Not Supplied)

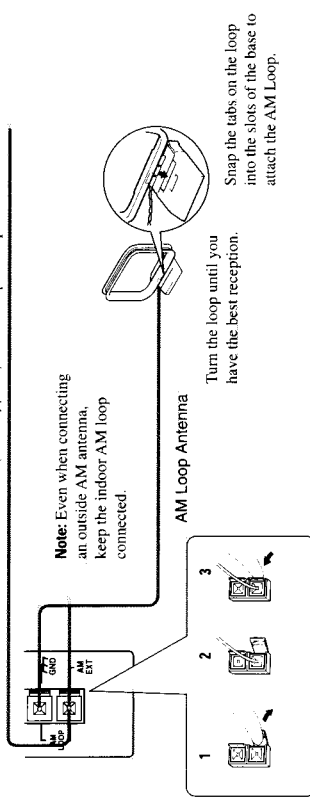
A 75-ohm antenna with coaxial type connector (DIN 45325) should be connected to the FM 75-ohm COAXIAL terminal.



CAUTION: To avoid noise, keep antennas away from metallic parts of the CA-D672TR, connecting cord and the AC power cord.

Connecting the AM (MW/LW) Antenna

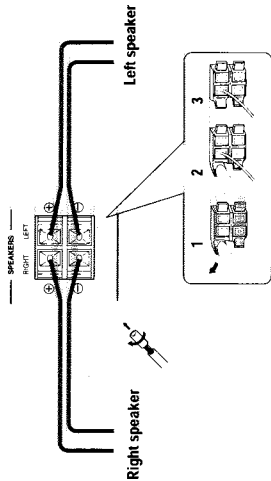
AM antenna wire (Not supplied) If reception is poor, connect the outside antenna.



CAUTION: Make all connections before plugging the Unit into an AC power outlet.

Connecting the Speakers (Please refer to instructions for speakers as will when you connect speakers.)

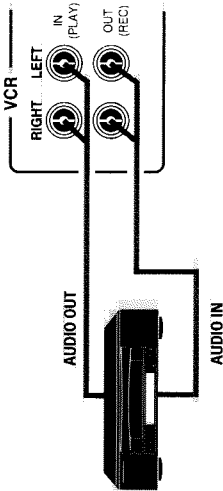
- For each speaker, connect one end of the speaker wire to the speaker terminals on the back of the CA-D672TR and the other end to the speaker.
1. Open each of the terminals and insert the speaker wires firmly (be sure to remove the insulation at the end of each wire first); then close the terminals.
 2. Connect the red (+) and black (-) terminals of the right side speaker to the red (+) and black (-) terminals marked RIGHT on the CA-D672TR.
Connect the red (+) and black (-) terminals of the left side speaker to the red (+) and black (-) terminals marked LEFT on the CA-D672TR.



IMPORTANT: Use speakers with the correct impedance only. The correct impedance is indicated on the back panel.
CAUTION: If a TV is installed near speakers, the TV may display irregular colours. In this case, set the speakers away from the TV.

Connecting a VCR

Connect the VCR to the VCR terminal.



Now you can plug the AC power cord into the wall outlet, and your CA-D672TR is at your command!

DEMO Mode

When the CA-D672TR is connected to an AC power outlet, a DEMO mode displaying some of the system's features automatically starts.

The DEMO display cycles through the following items repeatedly.

- Scrolling display of "DEMO MODE START".
- Demo of MULTI CONTROL.
- Demo of Sound Modes.
- Demo of continuous play from DISC-1 to DISC-3.
- Scrolling display of "TUNER RANDOM 40CH PRESET".

To turn the DEMO display off, press any of the operation buttons. "DEMO OFF" appears on the display and the DEMO display automatically stops.

DEMO OFF



To turn the DEMO display on, press the DEMO button.

Notes:

- The DEMO display automatically starts when the power cord is inserted into a wall outlet.
- The DEMO display will not start if VCR is selected as a music source.

COMPU PLAY

COMPU PLAY is JVC's feature that lets you control the most frequently used functions of the CA-D672TR with a single touch.

One Touch Operation starts playing a CD, turns on the radio, plays a tape, etc. with a single press of the play button for that function. What One Touch Operation does for you is to turn the power on, then start the function you have specified. If the Unit is not ready, such as no CD or tape in place, the Unit still powers on so you can insert a CD or tape.

How One Touch Operation works in each case is explained in the section dealing with that function. The COMPU PLAY buttons are:

On the Unit

- CD button
- CD Player $\Rightarrow$ button
- CD Player DISC-1 to DISC-3 buttons
- CD Player Open/Close (A) buttons
- FM/AM button
- TAPE button
- DECK CONTROL $\triangleleft$, $\triangleright$ buttons
- VCR button

On the Remote Control

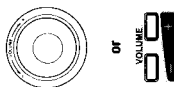
- TUNER button
- VCR button
- CD control $\blacktriangleright$ button
- CD control DISC 1 to DISC 3 buttons
- CD control Open/Close (A) buttons
- Deck control $\blacktriangleleft$, $\blacktriangleright$ buttons

Adjusting the Brightness of the Display



In Standby mode, you can adjust the brightness of the clock display.
Pressing the MULTI CONTROL stick in the upwards direction makes the display brighter.
Pressing the MULTI CONTROL stick in the downwards direction makes the display darker.

Adjusting the Volume



— — — — —

S.A. Bass Mode

- ❑ If the last thing you were doing was listening to a tape in Deck B, you are now ready to listen to a tape again in Deck B, or you can change to another source.
- ❑ If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

→ **SA BASS1** → **SA BASS2** → **OFF** → (back to the beginning)

To cancel the effect, press the same button until "OFF" appears on the display. The S.A. BASS indicator goes out.

Sound Modes

The CA-D672TR has some preset sound effects that give you control of the way your music sounds, so you can tailor it for your room and for the quality of the source. We can give you some idea of how each one affects the music, but the only way to really tell is to try them yourself. You can also create up to three of your own customized S.E.A. (Sound Effect Amplifier) settings and store them in the unit's memory.

- The preset sound modes include modes using surround effects and modes using S.E.A. effects.
- Sound Mode effects cannot be recorded.

Surround effect modes

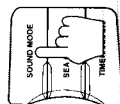
- D. CLUB (Dance Club)**
Increases resonance and bass.
Adds depth and brilliance to the sound, like in a concert hall.
- HALL**
Adds clarity and spreads the sound, like in an outdoor stadium.
- STADIUM**

S.E.A. effect modes

- ROCK**
Boosts low and high frequencies.
- POP**
Good for vocal music.
- CLASSIC**
Set for wide and dynamic sound stereo systems.

Selecting a Sound Mode

Using the Unit



1. Press the **SOUND MODE** button.
The currently selected Sound mode appears on the display.
The MULTI CONTROL indicators light up to indicate the directions in which you can use the controller.



Note: If no adjustments are made for 5 seconds in Sound mode after the SOUND MODE button is pressed, the display reverts to the previous display.

2. Press the **MULTI CONTROL** stick to the left or right to select a **Sound mode**.

Use the MULTI CONTROL stick to select a Sound mode while sound mode is displayed. If the display reverts to the previous display, press the SOUND MODE button again and use the MULTI CONTROL stick to select a mode.



- The display also displays the frequency for the selected mode.

Moving the MULTI CONTROL stick to the right →
→ D. CLUB → HALL → STADIUM → ROCK → POP → CLASSIC → MANUAL 1 → MANUAL 2 → MANUAL 3 → OFF →
← Moving the MULTI CONTROL stick to the left

To cancel Sound mode, select "OFF".

Unless sound mode "OFF" is selected, the red perimeter line around the SOUND MODE indicator is lit. If "OFF" is selected, the perimeter line goes out.



SOUND MODE ON



SOUND MODE OFF

Using the Remote Control

Press the **SOUND MODE** button.

The display changes with each press of the button as shown below.

→ D. CLUB → HALL → STADIUM → ROCK → POP → CLASSIC → MANUAL 1 → MANUAL 2 →
MANUAL 3 → OFF → (back to the beginning)

Customizing a Sound Mode

You can change an existing sound mode to suit your own preferences. These changed settings can be stored in the CA-D672TR's sound mode memory.

1. Select the sound mode you want to change.

If you select D. CLUB, HALL, or STADIUM, the surround effect remains unchanged, but you can adjust the S.E.A. effect.

2. Press the **SEA CONTROL** button.

"SEA CONT" appears in the display, then the low tone section of the tone equalizer is displayed and the MULTI CONTROL indicators light up to indicate the directions in which you can use the controller.



Note: If no adjustments are made for 5 seconds after the SEA CONTROL button is pressed, Sound mode appears on the display then reverts to the previous display.

3. Adjust the settings using the **MULTI CONTROL** stick.

- Adjust the level by adjusting the MULTI CONTROL stick up and down.
The level can be set between +3 and -3 in seven steps.



- Select the tone range by adjusting the MULTI CONTROL stick left and right.
You can select LOW, MID, or HIGH tones.



4. Press the **SET** button.

"MANUAL 1" appears on the display.



5. Select the memory number by adjusting the **MULTI CONTROL** stick left and right.

You can choose from "MANUAL 1" to "MANUAL 3".

6. Press the **SET** button again.

"MEMORY" appears on the display and the settings are stored in the memory number selected.



- The sound mode is set to the settings you have stored.
- If you store new settings to a memory number that has already been used, the new settings replace the existing setting.

English

English

Auto Power Off

When playing either a tape or a CD, Auto Power Off will shut the Unit off when the tape or CD comes to an end. Although Auto Power Off is very useful for shutting off the CA-D672TR at night, you can also use it if you think you might forget to turn the Unit off when leaving the house or your room at other times of the day.



To Use Auto Power Off

Press the AUTO POWER OFF button, the AUTO POWER OFF button lights up.

To Cancel Auto Power Off

Press the AUTO POWER OFF button again, the AUTO POWER OFF button goes out.

Important Information On Using Auto Power Off

- The end of CD playback varies depending on the play mode of the CD Player. If the play mode is Continuous or "RANDOM", when all tracks on the disc set in the CD player end, the power is automatically turned off. If the play mode is "PROGRAM", the power is automatically turned off when the last track you programmed ends.
- Auto Power Off will still work even though you press the REPEAT button.
- Repeat Mode ("REPEAT ALL" indicator lights up on the display): This automatically turns off the power after all the tracks on the CDs in the CD Player have been played.
- Repeat 1 CD Mode ("REPEAT 1 CD" indicator appears on the display): This automatically turns the power off after all of the tracks on the CD have been played.
- Repeat 1 Mode ("REPEAT 1" indicator lights up on the display): This automatically turns the power off after the selected track has been played.
- If you press the AUTO POWER OFF button while the tape is playing:
 - If Reverse Mode is off, the Unit turns off when the current side finishes.
 - If Reverse Mode is on, the Unit will turn off when the tape finishes playing in the < direction.

Using a VCR

Listening to a VCR

By playing the sound from VCR through the CA-D672TR, you can gain control over how the music or program sounds. Once the connected equipment is playing through the CA-D672TR, you can apply the sound effects.

- First make sure that the optional equipment is properly connected to the CA-D672TR. (See page 5).

1. Set the VOLUME control to 0.

2. Press the VCR button.

When CA-D672TR is in Standby mode, the Unit is automatically turned on and "VCR" appears on the display.



3. Start playing the equipment.

4. Adjust the VOLUME control to the desired listening level.

5. Select a sound effect mode, if you wish.

To Cancel the Setting

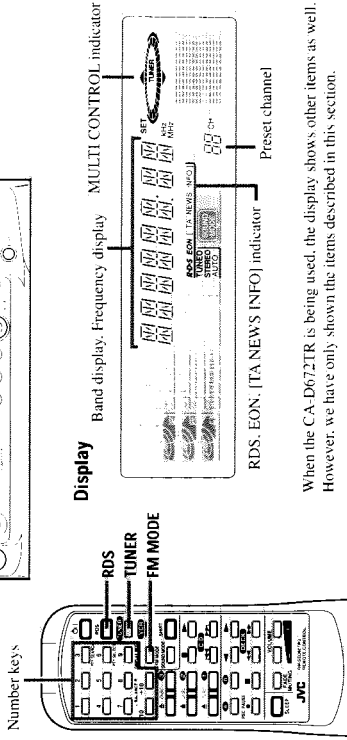
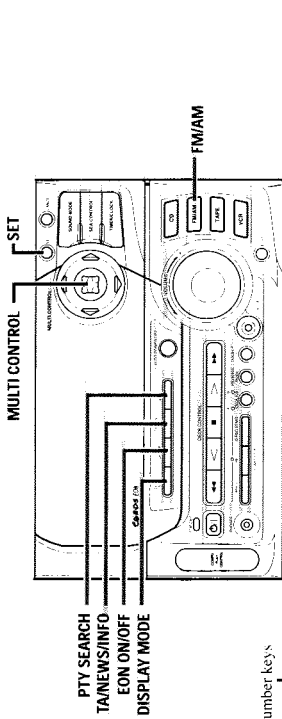
Change the source by starting any one of the CA-D672TR's built-in sound sources, such as the Tuner or CD Player.

Recording to a VCR

To record to a VCR, start playback of the recording source of the CA-D672TR and start recording on your VCR. (Refer to the VCR's instruction manual for details on the recording procedure for your VCR.)

- You cannot record using Sound mode effects.

Using the Tuner



When the CA-D672TR is being used, the display shows other items as well. However, we have only shown the items described in this section.

You can listen to both FM and AM (MW/LW) stations. Stations can be tuned in manually, automatically, or from preset memory storage.

- Before listening to the radio:
 - Check that both the FM and AM (MW/LW) antennas are firmly connected. (See page 4).

One Touch Radio

Just press the FM/AM button (or the TUNER button on the Remote Control) to turn on the Unit and start playing the most recent station tuned in.

- You can switch from any other sound source to the radio by pressing the FM/AM button (or the TUNER button on the Remote Control).



Tuning In a Station

Press the FM/AM button (or the TUNER button on the Remote Control) to turn on the radio. The Frequency of the previously selected channel appears on the display.

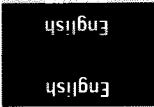
Switching between Frequency Bands

Press the FM/AM button.

Each time you press the button, the band alternates between FM and AM (MW/LW).



English
English



Selecting a radio station

- Select a frequency by adjusting the MULTI CONTROL stick up or down. The frequency changes in one step increments. "TUNED" appears on the display when a signal is found. This is called Manual Tuning.
The frequency increases when MULTI CONTROL stick is pressed upwards, and decreases when the MULTI CONTROL stick is pressed downwards.
 - If the MULTI CONTROL stick is pressed up or down continuously for a few seconds, the frequency changes continuously until a signal is found, then "TUNED" appears on the display. This is called Auto Tuning.
 - Possible only after presetting stations.
- Using the Unit**
Select a preset channel by adjusting the MULTI CONTROL stick left or right.
- Using the Remote Control**
- Press the TUNER button so that you can receive the most recent station tuned in.
 - Select the station by entering the preset number in the number keys of the Remote Control.
- Example: for channel 5, press 5. For channel 15, press +10 then 5. For channel 20, press +10, then 10. For channel 32, press +10 three times, then 2.



Presetting Stations

You can store up to 40 of your favourite radio stations (FM and AM (MW/LW)) in memory, giving you quick, easy access to the stations.

Note: In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

- Select a frequency band by pressing the FM/AM button.
- Tune to a station by adjusting the MULTI CONTROL stick up or down.
- Press the SET button.
On the display, "SET" will blink for 5 seconds.
 - During these 5 seconds while "SET" is blinking, you can assign a channel number to the station and enter it into the memory.
- Select a preset number by adjusting the MULTI CONTROL stick left or right.
- Press the SET button and the station will be assigned to the channel number showing on the display.
"MEMORY" appears in the display.
 - If a station has been previously stored using the same channel number, this will be erased and the newly selected station will be stored.
 - If "SET" in the display goes off, start again from step 3.
- Repeat steps 1 - 5 for each station you want to store in memory with a preset number.

CAUTION: If the Unit is unplugged or if a power failure occurs, the preset stations will be erased after a few days. If this happens, preset the station again.

To Change the FM Reception Mode

When an FM stereo broadcast is hard to receive or noisy, press the FM MODE button on the Remote Control so that the "AUTO" indicator goes off in the display. Reception improves, but there are no stereo effects. In this monaural mode, noise comes out while tuning in stations (since muting is also cancelled).



To restore the stereo effect, press the FM MODE button on the Remote Control so that the "AUTO" indicator lights up. In this stereo mode, no noise comes out while tuning in stations, and you can hear stereo sounds when a program is broadcast in stereo.

Receiving FM Stations with RDS

RDS (Radio Data System) is a broadcasting service which a growing number of FM stations are now providing. It allows the FM stations to send additional signals along with their regular programme signals. For example, the stations send their station names and information about what type of programme they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS signal, the RDS indicator lights up and the station frequency (and then the station name if sent) is displayed.

One convenient RDS service is "Enhanced Other Networks (EON)". This allows the Unit to automatically switch to a programme type of your choice when one starts in your broadcast area.

- Not all FM stations provide RDS service, nor do all RDS stations provide the same services. If in doubt, check with local radio stations for details on RDS services in your area.



Note: RDS may not work correctly if the station to which you are tuned is not transmitting properly or if the signal strength is weak.

What Information RDS can Provide

CA-D672TR can use the following RDS service:

PS (Program Service name)
Identifies each station by a name.

TA (Traffic Announcement Identification)
Identifies that a traffic announcement is being broadcast in your area.

RT (Radio Text)
Allows the RDS station to send text messages that appear on the display of the unit.

PTY (Programme Type)
Identifies the type of RDS programme. This allows you to locate a specific type of programme being broadcast.

The programme types are as follows:

TRAFFIC:	Traffic announcement
NEWS:	News
INFO:	Information
POP M:	Pop music
ROCK M:	Rock music
M.O.R. M:	Middle-of-the-road music (usually called "easy listening")
LIGHT M:	Light music
CLASSICS:	Classics
OTHER M:	Other music
AFAIRS:	Topical programme expanding on current news or affairs
SPORT:	Sports events
EDUCATE:	Educational programmes
DRAMA:	Radio plays
CULTURE:	Programmes on national or regional culture
SCIENCE:	Programmes on natural sciences and technology
VARIED:	Other programmes like comedies or ceremonies
NONE:	Undefined
ALARM:	Emergency broadcasts

EON (Enhanced Other Networks)
Provides information available on RDS stations other than the one which is being received.

Changing the Display

You can see RDS information on the display.

To view RDS information on the display, press the DISPLAY MODE button. (When using the Remote Control, press the DISPLAY MODE button after pressing the RDS button.) Each time you press the button, the display changes to show the following information:



- While RDS information is being received from a station, "WAIT PS", "WAIT PTY", or "WAIT RT" may appear on the display.

Searching for Programmes by PTY codes

One of the advantages of the RDS service is that you can locate a particular kind of programme by specifying the PTY codes.

- The PTY Search function is applicable to preset stations only.

To search for a programme using the PTY codes, follow this procedure:
Using the Unit

- Press the PTY SEARCH button.

"PTY" and "SELECT" appear alternately on the display.

Note: If no adjustments are made for 5 seconds in PTY Search mode, the display reverts to the previous display. Perform the next step while "PTY" and "SELECT" are being displayed.

- Press the MULTI CONTROL stick to the left or right to select a PTY.

The display changes with each press of the MULTI CONTROL stick as shown below:

Moving the MULTI CONTROL stick to the right →
 ↔ TRAFFIC ↔ NEWS ↔ INFO ↔ POP M ↔ ROCK M ↔ M.O.R M ↔ LIGHT M ↔ CLASSICS ↔
 OTHER M ↔ AFFAIRS ↔ SPORT ↔ EDUCATE ↔ DRAMA ↔ CULTURE ↔
 SCIENCE ↔ VARIED ↔

← Moving the MULTI CONTROL stick to the left

- Press the PTY SEARCH button again.

While the search function is running, the selected programme type and "SEARCH" alternate on the display. The preset number also change.

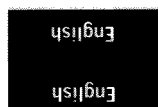
Using the Remote Control

- Press the RDS button.

- Press the PTY SEARCH button.

"PTY" and "SELECT" appear alternately on the display.

Note: If no adjustments are made for 5 seconds in PTY Search mode, the display reverts to the previous display. Perform the next step while "PTY" and "SELECT" are being displayed.



- Press the PTY SELECT button to choose a PTY.

- The programme type display changes with each press of the PTY SELECT button as shown below.
 TRAFFIC → NEWS → INFO → POP M → ROCK M → M.O.R M → LIGHT M → CLASSICS →
 OTHER M → AFFAIRS → SPORT → EDUCATE → DRAMA → CULTURE → SCIENCE →
 VARIED → (back to the beginning)

- Press the PTY SEARCH button again.

While the search function is running, the selected programme type and "SEARCH" alternate on the display. The preset number also change.

Once the station which is broadcasting the selected PTY (Programme Type) is located, searching will stop. Then the station name (if PS code is being sent) will be indicated and the broadcast will commence. The Display will stay blinking for 10 seconds from the end of the searching function. If you press the PTY SEARCH button again during this period, search for the same PTY (Programme Type) will restart.

The PTY Search function is completed when the indicated preset Number changes from blinking to continuously lit.

- If a station broadcasting a selected PTY (Program Type) cannot be found, "NOT" and

"FOUND" are displayed alternately on the display after the Unit has searched through the preset numbers. The Unit will then return to the station to which it was tuned prior to the start of the PTY Search.

To cancel a PTY Search operation, use the PTY SEARCH button and MULTI CONTROL stick to select another function.

Note: PTY Search can be used even while AM (MW/LW) broadcasts are being received.

EON Function

With the EON (Enhanced Other Networks) code, the Unit can perform a standby reception which will enable you to obtain desired information which is available from other stations.

- "EON" will be displayed while receiving stations with an EON code.
- EON Standby reception is applicable for preset stations only.
- You can set EON Standby reception regardless of types of receiving bands.

Setting EON Standby reception

- Press the EON ON/OFF button.
[TA NEWS INFO], or the last EON information type selected, is displayed.
- Select information you want by pressing the TA/NEWS/INFO button.

TA: Identifies that a traffic announcement is being broadcast in your area.

NEWS: News

INFO: Programs on medical service, weather forecast, etc.

- With each pressing of the TA/NEWS/INFO button, indications will change as follows:

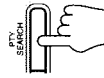
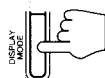
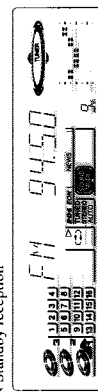
[TA] → [NEWS] → [INFO] →
 [TA NEWS] → [NEWS INFO] → [TA
 [TA NEWS INFO] → (back to the beginning)

As soon as your selection is entered the Unit will go into EON Standby reception mode.

If you want to cancel the EON function, turn off the [TA NEWS INFO] indicator by pressing the EON ON/OFF button.

When this Unit carries out EON Standby reception, the indication will change as follows:

- Waiting for EON Standby reception



Using the CD Player

English
English

2. Preset stations are being searched for and while preparing to change the station, sound will be muted.



Blinking

3. The station will be changed and the programme type being received will appear on the display.



Blinking

- When using the DISPLAY MODE button to change the display, use the appropriate setting for the type of display.

Notes:

- EON broadcasts of some stations may not be compatible with this Unit. In the case of an incompatible EON broadcast, "EON" will not appear on the display.
- While the Unit is receiving information for an EON code you have selected for EON Standby, you cannot use the following operations: MULTI CONTROL stick, TA/NEWS/INFO button or PTY SEARCH button. In addition, if a station transmits information for a programme type you have selected without sending the EON code, the EON Standby operation is still performed. Therefore, you will not be able to use the operations listed above during this period.
- If the reception is unsatisfactory for a station among the preset stations, "WAITING" appears on the display and the station is searched for again. If after searching through the channels five times, the broadcasting station cannot be found, "NOT" and "FOUND" are displayed alternately on the display. The Unit will then return to the station to which it was previously tuned.

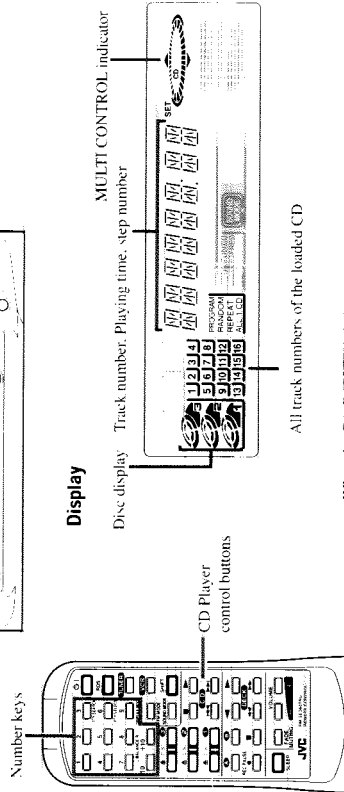
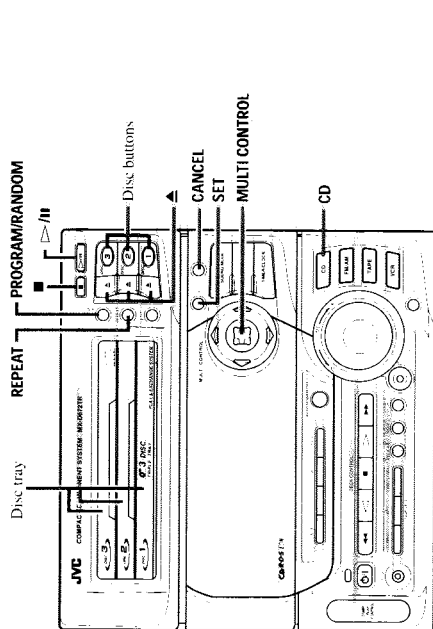
When broadcasting of the desired information has been completed, "EON END" will be indicated and the Unit will automatically go back to the station which had previously been tuned to.

- While receiving information on EON Standby reception, the station will not change to other stations even if the same information is available from them.
- If you cancel the EON function when in EON Standby reception mode by either pressing the EON ON/OFF button, the Unit will automatically return to the station which had been previously tuned-in.

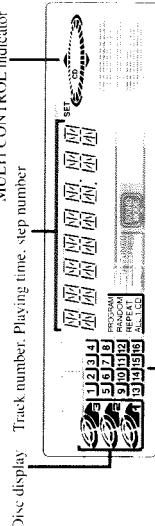
If the information you are waiting for is available from the current station, the indicator will blink.

ALARM function

If an ALARM (Emergency) signal is received while receiving an EON code from a station, "ALARM" blinks on the display and the Unit automatically switches to the station broadcasting the ALARM signal. When an ALARM broadcast of PTY is being received from the currently tuned-in station, "ALARM" will blink on the display for your attention.



Display



All track numbers of the loaded CD

When the CA-D672TR is being used, the display shows other items as well. However, we have only shown the items described in this section.

DISC indicator

Each of the Disc buttons acts as an indicator.

The indicator is off when the CD Player is checking that there is no disc in the disc tray for the corresponding disc number.

Pressing the Δ button turns the indicator on.

During playback, the disc indicator for the disc being played flashes.



Disc indicator

Disc display

A red marker lights on the disc display for the disc number you have selected. This disc display blinks while a CD is being played.

The centre of the disc display is not lit while CD Player is checking that there is no disc in the disc tray for the corresponding disc number.



Disc marker

The CA-D672TR's CD Player has an Automatic Changer with 3 disc trays. You can use Continuous, Random, Program or Repeat Play for the discs in DISC-1, DISC-2 and DISC-3. Repeat Play can repeat all the tracks on all the CD's, the tracks on one of the CD's or one track on one CD. There is also the Tray Lock function, which safely keeps discs in the trays.

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.

The Quickest Way To Start a CD Is With the One Touch Operation

The power comes on, and operations are done automatically.

- Press the CD or  button on the Remote Control).
- If there is a CD in the disc tray of the selected (lit) disc number, playback continues from the track where it was interrupted.
- If there is no CD in any of the disc trays, the message "OPEN" appears in the display after a few seconds and the disc tray for the marked disc opens.
- Press a DISC button (1 to 3).
- If there is a CD in the disc tray for the disc number you have selected, playback begins from the first track of that disc. If there is no CD in the disc tray, the message "OPEN" appears in the display after a few seconds and the disc tray opens.
- Press the  button.
- The power turns on, and the tray opens automatically.

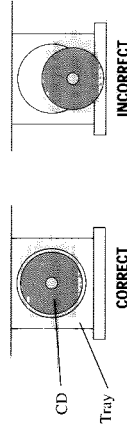
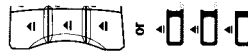
Basics of Using the CD Player — Continuous Play

You can play the discs continuously in the DISC 1 to DISC 3 trays.

To Insert Discs

- Press the  button on the left of the Disc button you want to insert the disc into. The disc tray slides out automatically.
- Place a CD, with its label side up, onto the tray.

ATTENTION: To avoid malfunctions when you play a CD, please set the CD in the right place at the centre of the tray.



- Press the  button to close the tray.
- Repeat steps 1 to 3 to insert other discs into other trays.
- To continue putting discs into other trays, even if a tray is open, by pressing the  button of another disc tray, the open tray will close automatically, and the new disc tray will slide out.
- To put an 8 cm CD into a tray, insert it so that it is aligned with the groove in the tray's centre.
- "OPEN" appears in the display when a tray opens, and "CLOSE" when a tray closes.
- If a tray is open when the CA-D672TR switches to Standby mode, the tray is closed automatically.

Note: When the CD Player is reading a disc, "-----" appears in the display. While this is being displayed, the  button or DISC button cannot be used. Once the display changes from "-----" to another display, the  button and DISC button can be used.

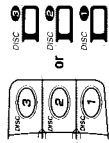
To Play a Disc

This function plays the disc in the Unit continuously.

1. Prepare the discs.

2. Press the DISC button (1-3) of the disc you want to play.

The first track of the selected disc will begin playing. When the selected disc finishes playing, the next disc will begin playing automatically. When the last disc has finished playing, the Unit will stop automatically.



- When a DISC button is pressed while a tray is open, the open tray will close automatically and Continuous Play playback begins from the first track of the disc.

To use Continuous Play from the first track of the disc selected by the disc marker, you do not need to press a DISC button (1-3), just press the  button or  button on the Remote Control.

Playing order of discs

- When playback starts from DISC-1, the playing order is DISC-1 → DISC-2 → DISC-3. When DISC-3 has finished, the CD Player selects DISC-1 (the disc marker is on) and stops.
- When playback starts from DISC-2, the playing order is DISC-2 → DISC-3 → DISC-1. When DISC-1 has finished, the CD Player selects DISC-2 (the disc marker is on) and stops.
- When playback starts from DISC-3, the playing order is DISC-3 → DISC-1 → DISC-2. When DISC-2 has finished, the CD Player selects DISC-3 (the disc marker is on) and stops.
- If any of the disc trays are empty, the CD Player skips that disc tray and continues through the remaining disc trays in the order shown above.

Note: If there is no CD in disc tray for the DISC button you pressed, the message "OPEN" appears in the display and the disc tray automatically opens. If there is no disc in the disc tray for the selected disc number, when the  button (or the  button on the Remote Control) is pressed, playback begins from the next disc.

To stop play the disc, press the  button.

To stop play and remove the disc, press the  button for the disc being played.

To pause, press the  button. The Disc display will blink. (The Pause function cannot be used with the  button on the Remote Control.)

To cancel pause, press the  button again (or press the  button on the Remote Control). Play continues from the point where it was paused.

RESUME

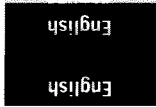
When the  button is pressed during playback, and the source is changed, the track number is memorized even when the power is turned off. The next time the  button (or the  button on the Remote Control) is pressed, play resumes from the track where it was interrupted.

- To start playback from the first track, press the DISC button.

To Change Discs While Playing

You can replace a CD in a tray not being used, while another CD is playing.

- Press the  button of the tray not being used. The tray opens.
- Replace the disc in the tray.
- Press the  button to close the tray.



To Select a Disc, Track or Passage Within a Track

Press the DISC button (1-3) for the disc tray containing the track you want to listen to.

- Example: for the third disc, press 3.

To Select a Track

Using the Unit

Select a track by adjusting the MULTI CONTROL stick left or right.

- The MULTI CONTROL stick adjustments step through the tracks on the CD one track at a time.
 - Moving the MULTI CONTROL stick to the right selects the next track.
 - Moving the MULTI CONTROL stick to the left selects the previous track.
- If the MULTI CONTROL stick is held down continuously, the CD Player skips through the tracks on the CD continuously in the selected direction.



Using the Remote Control

Press the < or > button to select the track.

- Each time you briefly press and release the < or > button, the track changes by one.
 - Press and release the > button to go ahead one track at a time.
 - Press and release the < button to go back one track at a time.
- Holding down the < or > button allows you to change tracks continuously.



To Select a Passage Within a Track

While a CD is playing, press the MULTI CONTROL stick up or downwards continuously.

- If the MULTI CONTROL stick is pressed upwards the CD is played forwards quickly, if the controller is pressed downwards the CD is played backwards quickly. Release the controller when the CD reaches the passage you want to hear.

Note: You cannot perform these fast forwards or fast backwards operation with the remote control.



Locating a Track With the Remote Control Directly

Using the number keys on the Remote Control allows you to go directly to the beginning of any track.

- Press the DISC button (1-3) for the disc tray containing the track you want to listen to.
 - Example: for the third disc, press 3.
- Enter the number of the track you want to listen to with the number keys.

The selected track starts playing.

 - Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

Programming the Playing Order of the Tracks

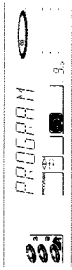
You can change the order in which the discs and tracks play, and select only the discs and tracks you want from among those loaded in the CD Player.

- You can program up to 32 steps in any desired order from among the discs in the player.
- You can only make or change a program when the CD Player is stopped.

Using the Unit

1. Press the PROGRAM/RANDOM button.

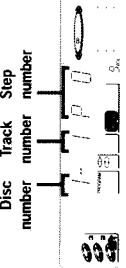
The message "PROGRAM" appears on the display and the PROGRAM indicator comes on. If you have already created a program, the last step of the previous program is displayed.



- The display changes with each press of the PROGRAM/RANDOM button, as shown below.
→ PROGRAM → RANDOM → Off (Continuous Play) → (back to the beginning)

2. Select a disc with the DISC buttons (1 to 3).

The display changes to the Program Entry display and the disc number and track number sections blink for a few seconds.



- While the display is blinking, perform the operations in steps 3 to 4. When the blinking display changes to the "PROGRAM" display, repeat the operations in steps 2 to 4.

3. Select a track for the program by adjusting the MULTI CONTROL stick left or right.

The track number appears on the display.



4. Press the SET button.

The blinking disc number and track number changes to a steady light, and the step number is displayed.



5. Repeat steps 2 to 4 to select the other tracks for the program.

- To select another track from the same disc, repeat the procedure from step 3.

6. Press the < or > button.

The Unit plays the tracks in the order you have programmed them.

Using the Remote Control

1. Press the PROGRAM/RANDOM button on the Unit.

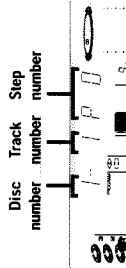
The message "PROGRAM" appears in the display and the PROGRAM indicator comes on. If you have already created a program, the last step of the previous program is displayed.



- The display changes with each press of the PROGRAM/RANDOM button, as shown below.
→ PROGRAM → RANDOM → Off (Continuous Play) → (back to the beginning)

2. Select a disc with the DISC buttons (1-3).

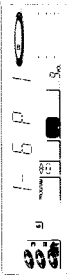
The display changes to the Program Entry display and the disc number and track number sections blink for a few seconds.



- While the display is blinking, perform the operations in step 3. When the blinking display changes to the "PROGRAM" display, repeat the operations in steps 2 to 3.

- 3. Press the number keys (1 to 10 and +10) to select the track to program.**
- Example: For track 5, press 5. For track 15, press +10 then 5. For track 20, press +10 then 10. For track 32, press +10 three times, then 2.

The blinking disc number and track number changes to a steady light, and the step number is displayed.



- 4. Repeat steps 2 to 3 to select the other tracks for the program.**

- 5. Press the ► button.**

The Unit plays the tracks in the order you have programmed them.

- If you try to program a 33rd step, the CA-D672TR lets you know that the program is full by displaying the message "FULL" on the display.
- If you try to program an disc tray that is empty, or a track number that does not exist on a disc (for example, selecting track 14 on a disc that only has 12 tracks), the selected disc or track are skipped when the program is played.
- You can skip to a particular program step during program play. To do this from the unit, move the MULTI CONTROL stick left or right, to do from the remote control press the ◀◀ or ▶▶ buttons.
- To play the programmed tracks over and over, press the REPEAT button. The Repeat mode indicators light up in sequence with each press of the REPEAT button.

To stop playing, press the ■ button.

To delete all the tracks in a program, keep pressing the CANCEL button on the Unit until all the tracks in the program have been deleted, or press the ▲ button for each disc in the program.

To exit Program Mode, press the PROGRAM/RANDOM button twice to change to Continuous Play mode.

To Check the Program

While the CD Player is stopped, use the ◀◀ or ▶▶ buttons on the remote control to check the contents of the program.

Each time you press the ▶▶ button, the program contents are shown on the display in the programmed order. Pressing the ◀◀ button displays the previous step in the program.

To Modify the Program

Modify the contents of a program while the CD Player is stopped.

Press the CANCEL button on the Unit, the last track in the program is deleted.

Each time you press the button, the last track listed in the program is deleted from the program.

To add a track to the program, follow the procedure above (on either the Unit or the Remote Control). The new tracks are added to the end of the program.

Random Play



The tracks will play in no special order when you use this mode.

- 1. Press the PROGRAM/RANDOM button while the CD Player is stopped to change to the Random Mode display.**

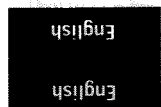


- The display changes with each press of the PROGRAM/RANDOM button, as shown below.
→ PROGRAM → RANDOM → Off (Continuous Play) → (back to the beginning)

- 2. Press the ◀/11 or CD button (or the ► button on the Remote Control).**

The tracks are played in random order.

When all of the tracks have been played, the CD Player stops.



Note: Press the DISC buttons (1-3), or the number keys, to cancel Random play and begin playback in Continuous Play mode.

- Press the REPEAT button before or during random play to instruct the CA-D672TR to continue with a different random track selection after the last selection is played.

To cancel random play, press the ■ button, then press the PROGRAM/RANDOM button to select another mode.

Repeating a Selection or the Discs

You can have all the discs, the program or the individual selection currently playing repeat as many times as you like.

Press the REPEAT button on the CA-D672TR.

The display changes with each press of the button, as shown below.

→ REPEAT ALL → REPEAT 1 CD → REPEAT 1 → (back to the beginning)

REPEAT ALL: Repeats all the tracks on the CD's in the CD Player, or all the tracks in the program.

REPEAT 1 CD: Repeats all the tracks on one CD.

REPEAT 1: Repeats one track on a CD.

- "REPEAT ALL" and "REPEAT 1" remain on the display even when you change the play mode.
- The three Repeat Modes above can be selected during Continuous Play, however, during Program Play and Random Play, you can only select REPEAT ALL or REPEAT 1.

To exit Repeat Mode, press the REPEAT button until the Repeat mode indicator on the display goes out.

Tray Lock Function

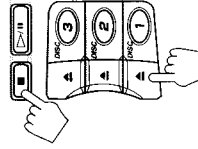
In order to safely keep the discs in the CD Player, the three trays can be electronically locked in a single operation.

When the electronic lock is on, the trays cannot be opened even if the ▲ button is pressed.

This function can only be accessed by using the buttons on the Unit itself.

Locking the Electronic Lock

1. Put the CA-D672TR's power into **STANDBY mode**.
2. While pressing the ■ button, press the ▲ button for **DISC 1's tray on the Unit**.

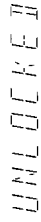


When the CD Player trays are locked, pressing the ▲ buttons displays the message "LOCKED" on the display and the trays do not open. But, the ▲ button can be used to automatically turn on the power.

Unlocking the Electronic Lock

1. Put the CA-D672TR's power into **STANDBY mode**.
2. While pressing the ■ button, press the ▲ button for **DISC 1's tray on the Unit**.

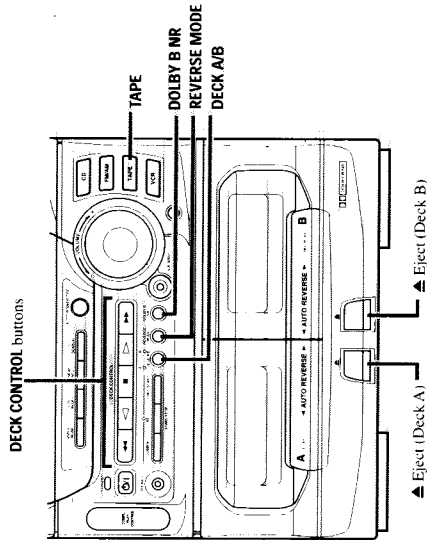
When the unlock operation is done, "UNLOCKED" appears in the display to show that the lock has been taken off.



The trays can now be opened by pressing the ▲ buttons.

The ▲ button can also be used to automatically turn on the power.

Using the Cassette Deck (Listening to a Tape)



Display

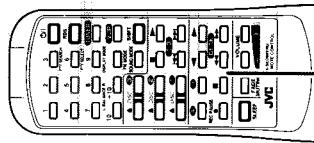


Tape Direction Indicator on the Display

The Tape Direction indicator tells you which direction the selected tape deck will use for playback.

- During playback, the direction indicator blinks slowly.
- During fast left or fast right, the indicator blinks quickly.
- During Music Scan mode, the direction indicator alternates between blinking slowly and quickly repeatedly.

When the CA-D672TR is being used, the display shows other items as well. However, we have only shown the items described in this section.



Cassette Deck control buttons

The Cassette Deck allows you to play, record and dub audio tapes.

- Most tapes are now recorded with the Dolby NR system, so first check which type of the Dolby NR system has been used on the tape. Only Dolby B NR is incorporated into the CA-D672TR.
- With Automatic Tape Detection, you can listen to type I or II tapes without changing any settings.

The use of tapes longer than 120 minutes is not recommended, since characteristic deterioration may occur and these tapes easily jam in the pinch-rollers and the capstans.

One Touch Play

- Press the TAPE button.
- The power comes on and "TAPE" lights up on the display. If there is a tape in the deck corresponding to the Deck Indicator DECK A/B, that tape starts to playback. If there is no tape in the deck corresponding to the Deck Indicator, the CA-D672TR automatically turns on the power and displays "TAPE" then the message "NO TAPE" and waits for you to insert a tape or select another function.
- Press the ◀ or ▶ button (or the ◀ or ▶ button on the Remote Control).
- The power comes on and "TAPE" appears in the display. When a tape is already in the tape deck, the tape is played in the direction of the button pressed. If there is no tape in the deck corresponding to the Deck Indicator, the CA-D672TR automatically turns on the power and displays "TAPE" then the message "NO TAPE" and waits for you to insert a tape or select another function.



English
English

Regular Play

If the power is already on, you can use this basic procedure:

- Press the ▲ button for the deck you want to use.
- When the cassette holder opens, put the cassette in, with the exposed part of the tape down, toward the base of the CA-D672TR.
 - If the cassette holder does not open, turn the Unit off, then back on and press the ▲ button again.
- Close the holder gently.
 - When both Deck A and Deck B contain a tape, the last deck to have a tape inserted is selected. To change the selected deck, press the DECK A/B button.
 - When using the Remote Control, press the A or B button.
- Press the ◀ or ▶ button (or ◀ or ▶ button on the Remote Control).
 - The tape is played in the direction of the button pressed for the selected deck.
 - The Cassette Deck automatically stops when one side of a tape has finished playing.

To stop playing, press the ■ button.

To remove the tape, stop the tape, and press the ▲ button.

To change deck while playing a tape, press the ◀ or ▶ button after pressing the DECK A/B button on the Unit or press the ◀ or ▶ button after pressing the A or B button on the Remote Control.

Fast Left and Fast Right

- While the tape is stopped, press the ◀◀ button and the tape will wind rapidly onto the left side of the cassette without playing.
- While the tape is stopped, press the ▶▶ button and the tape will wind rapidly onto the right side of the cassette without playing.

Note: Deck A and Deck B cannot be used for playback at the same time.



Music Scan

To find the beginning of a music track during play, use the Music Scan function. Music Scan searches for blank portions that usually separate selections, then plays the next selection.

To Find the Beginning of the Current Selection

- Press the ◀◀ or ▶▶ button during play.**
- Make sure that you press the ◀◀ or ▶▶ button in the opposite direction to that in which the tape is playing. Searching stops at the beginning of the current selection, and the current selection starts automatically.

To Find the Beginning of the Next Selection

- Press the ◀◀ or ▶▶ button during play.**
- Make sure that you press the ◀◀ or ▶▶ button in the same direction as that in which the tape is playing. Searching stops at the beginning of the next selection, and the next selection starts automatically.

Music Scan works by detecting a 4-second long blank at the beginning of each selection, so it won't work well if your tape has:

- No blank at the beginning of a selection.
- Noise (often caused by much use or poor quality dubbing) which fills the blank with noise.
- Long, very soft passages or pauses in a selection. The scan will detect these as 4-second long blanks. If this happens, just scan again until you reach the selection you want.

Other Useful Features of the Cassette Deck

- Use **Reverse Mode** to make the tape automatically reverse at the end of a side and start playing the other side. Press the REVERSE MODE button to change from Reverse Mode on to Reverse Mode off, or from off to on.



Reverse Mode ON



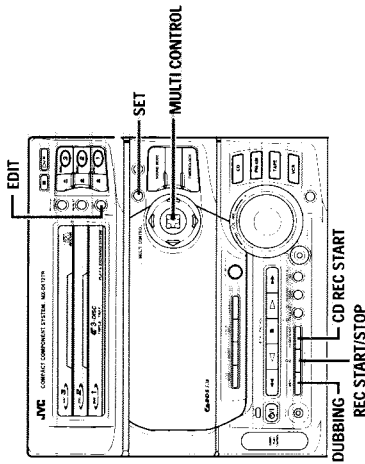
Reverse Mode OFF

- Continuous Play:** With the Reverse Mode indicator on, when tape playback in the ◀ direction finishes, the Unit always checks to see if a tape is in the other deck. If there is, it automatically starts playing. This Continuous Play function works regardless of which deck starts first.
- Press the DOLBY B NR button to switch Dolby B Noise Reduction on (the indicator lights up) or off (the indicator goes off). If a tape is recorded with the Dolby B NR system, playing it back with the Dolby NR on will reduce tape noise and improve the clarity of the sound.



Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Using the Cassette Deck (Recording)



Recording onto a cassette from any of the sound sources is simple. Just place a tape in Deck B, have the source ready, make one or two settings, and you're ready to record. For each source the procedure is a little different and now we'll explain just what to do for each one. If you forget, just come back to the section which has the specific procedures you need. But first, here are a few things to make your recordings better.

Things To Know Before You Start Recording

- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic embodied therein.
- Press the DOLBY B NR button — the indicator lights up — to reduce tape hiss, except when dubbing tapes, since Dolby NR is inactive in Dubbing Mode regardless of the setting of DOLBY B NR. The dubbed tape automatically contains the same processing as the source tape.
- When you want to record onto both sides of a tape, you can set Reverse mode on to do so. However, recording automatically stops after recording in the ◀ direction in Reverse mode. Therefore, make sure that the tape direction is ▶ when recording with Reverse mode on.
- The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the CA-D672TR. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- Two small tabs on the back of the cassette tape, one for side A and one for side B, can be removed to prevent accidental erasure or re-recording. To record on a cassette with the tabs removed, you must cover the holes with adhesive tape first. However, when a type II tape is used, only cover part of the hole as shown, since the other part of the hole is used to detect the tape type.
- When recording, you can hear Sound Mode effects through the speakers or headphones. However, the sound is recorded without Sound Mode effects.
- Type I and Type II tapes can be used for recording.



Note: At the start and end of cassette tapes, there is leader tape which cannot be recorded onto. Depending on the recording source, the first part of the recording may be missing because of the leader. When recording CDs or radio broadcasts, to get the beginning of the recording on the tape, first wind on the leader before beginning recording.

CAUTION: If recordings you have made have excessive noise or static, the Unit may be too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the CA-D672TR.

English

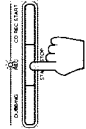
Standard Recording

This is the basic method for recording any source. The CA-D672TR also has special ways for recording CD to tape, and tape to tape, which save you time and effort, as well as give you some special effects. However, when you need to add a selection to a tape you have made, or are combining selections from several sources on one tape, use the method described below; just substitute the source you want into this procedure, such as a tape in Deck A, a CD, or the Tuner. You can also record from VCR with this procedure.

To Record Any Sound Source To Tape _____
Follow these steps to record from any sound source onto a tape in Deck B.

Using the Unit

1. **Insert a blank or erasable tape into Deck B.**
2. **Press the REVERSE MODE button if you want to record on both sides of the tape.**
Reverse Mode comes on.
☐ When using Reverse Mode, insert the tape so that it will be recorded in the forwards ► direction.
3. **Check the recording direction for the tape.**
Check that the Tape Direction indicator is the same as that for the tape in the tape deck. If the directions are different, press the ■ button after pressing the ◀ or ▶ button to set the tape direction.
☐ When using Reverse Mode to record both sides of a tape, check that the Tape Direction indicator is in the forwards ► direction. If the direction indicator is not in the forwards ► direction, press the ⇄ button then press the ■ button.
4. **Prepare the source, by, for example, tuning in a radio station, loading CDs, or turning on connected equipment.**
5. **Press the REC START/STOP button.**
The Recording indicator light comes on and the CA-D672TR begins recording.



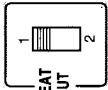
Using the Remote Control

1. **Insert a blank or erasable tape into Deck B.**
2. **Press the REC PAUSE button.**
The Recording indicator light comes on.
3. **Press the REVERSE MODE button on the Unit if you want to record on both sides of the tape.**
Reverse Mode comes on.
☐ When using Reverse Mode, insert the tape so that it will be recorded in the forwards ► direction.
4. **Prepare the source by, for example, tuning in a radio station, loading CDs, or turning on connected equipment.**
5. **Press the ◀ or ▶ button.**
Recording starts in the direction of the button pressed.
☐ When using Reverse Mode to record both sides of a tape, press the ► button.



CAUTION: Operations other than using AUTO POWER OFF, the SLEEP timer or changing the CD for the other disc trays, may cause the recording source to be changed.

If you are recording an AM (MW/LW) broadcast and you hear interference, move BEAT CUT switch on the back panel from position 1 (the normal mode) to position 2.



Notes for using Reverse Mode for recording

When recording in Reverse Mode, the CA-D672TR automatically stops when it reaches the end of the reverse ◀ direction. To record on both sides of a tape, make sure that the recording direction for the tape inserted into Deck B is forwards ►, and that the Tape Direction indicator is also forwards ►, before you start recording.

To Pause at Any Time During the Recording Process

Press the REC PAUSE button on the Remote Control. Then press either the ◀ or ▶ button on the Remote Control or REC START/STOP button on the Unit to restart recording.

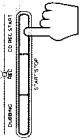
To Stop at Any Time During the Recording Process

Press the REC START/STOP button on the Unit again, or press the ■ button.

CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have set in a program.

1. **Prepare CDs. (See page 19.)**
Check that the CD Player is not playing a CD.
2. **Insert a cassette in Deck B to record on.**
☐ When you want to record on both sides of a tape, press the REVERSE MODE to turn Reverse Mode on. Check that the recording direction for the tape and the Tape Direction indicator are correct. (See "Notes for using Reverse Mode for recording," earlier on this page.)
3. **Press the CD REC START button.**
"CD REC" is displayed on the display then the Unit plays the CD and starts recording.



At the end of the tape, the CA-D672TR automatically goes back to the beginning of the last selection and re-records it, this time gently fading out at the end. If you selected Reverse Mode, "TAPE SIDE: B STANDBY" scrolls through the display then the reverse side starts with the last selection of the first side. The last selection of the first side will fade out at the end. (A 10 second blank is created at the beginning of the reverse side.)
When the recording is finished, the message "CD REC FINISHED" scrolls by on the display. The CD Player and Cassette Deck stop.

To Stop at Any Time During the Recording Process

Press the REC START/STOP button or the ■ button on the Cassette Deck or CD Player (or the ■ button on the Remote Control).

- Notes:**
- When the Auto Power Off function is turned on while recording a CD, the power will automatically turn off when the CD finishes. Be careful when the Auto Power Off function is turned on while recording a CD in Repeat Mode, as repeat will be cancelled and the power will automatically turn off with Repeat Mode ("REPEAT ALL", "REPEAT 1 CD", or "REPEAT 1"). (Page 11)
 - When making SLEEP timer settings while doing CD Direct recording, set the time so that there is enough leeway to finish the recording before the power goes off. If the time is set to about the length of the CD, the power may go off before recording finishes.

For CD Direct Recording using more than one disc: use a blank tape. If you use a prerecorded tape, prerecorded material may not be erased between newly-recorded tracks.

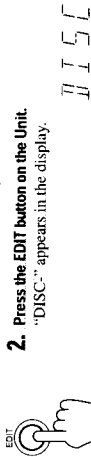
Auto Edit Recording

Using Auto Edit, you can record the CD tracks to fit the tape, so a selection isn't cut off. Auto Edit is one of the best ways to copy all of a CD onto a tape. Auto Edit programs the CD tracks in numerical order. To prevent the end of the last track on the front side from being cut off, the last track on the front side is selected to fit on the remaining tape length.

1. Prepare CDs. (See page 19.)

2. Press the EDIT button on the Unit.

"DISC" appears in the display.



3. Press the DISC button for the disc you want to record.

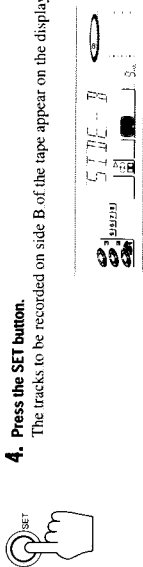
After "TAPE C" appears on the display, the optimum tape length for the disc you want to record is displayed.



- You can select a different length of tape, depending on the actual size of the tape you are using, from eleven possibilities programmed into the CA-D672TR: 40, 46, 50, 54, 60, 64, 70, 74, 80, 84, 90. Select the tape length that corresponds to the length of tape you are using, or the nearest length to it, by adjusting the MULTI CONTROL stick left or right.
 - If you pick a tape length shorter than the total playing time of the CD, the last tracks on both sides of the tape will be faded out as the tape ends.

4. Press the SET button.

The tracks to be recorded on side B of the tape appear on the display.



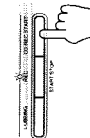
- To display the tracks that will be recorded on side A of the tape, press the SET button again. The Unit switches between side A and side B with each press of the SET button.
- To check the tracks that will be recorded, press the ◀ or ▶ buttons on the Remote Control.

5. Insert a cassette in Deck B to record on.

When you want to record on both sides of a tape, press the REVERSE MODE button to turn Reverse mode on.

6. Press the CD REC START button.

The Unit plays the CD and starts recording. If the tape has not been rewound, the Unit rewinds the tape before starting to record the CD.



When the tape is ready, to prevent the start of a track being cut, the CA-D672TR creates a blank period of 10 seconds before it starts to record the CD. While a blank period is being created, "TAPE SIDE-A STANDBY" scrolls through the display. (The CA-D672TR also creates a 10 second blank period at the start of side B of the tape. While a blank period is being created, "TAPE SIDE-B STANDBY" scrolls through the display.)

When the recording is finished, the message "CD REC FINISHED" scrolls by on the display. The CD Player and Cassette Deck stop.

English

To stop at any time while recording, press the ■ button (CD control or Cassette Deck control) or the REC START/STOP button. If you press the CD control ■ button, the Cassette Deck creates a four second blank space after the CD Player stops. If you press any other button to stop the recording, the CD Player and Cassette Deck stop at the same time.

To cancel Auto Edit, press the ▲ button for disc number being recorded, or press the PROGRAM/RANDOM button while the CD Player is stopped.

Note: When making SLEEP timer settings while doing Auto Edit recording, set the time so that there is enough leeway to finish the recording before the power goes off. If the time is set to about the length of the CD, the power may go off before recording finishes.

Tape to Tape Recording (Dubbing)

Recording from one tape to another is called dubbing.

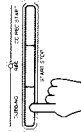
You can dub tapes simply, with just a single button.

- When dubbing tapes, make sure that the playback direction of Deck A and Deck B are the same.
- When you want to record both sides of a tape, press the REVERSE MODE button to turn Reverse mode on.
- It is preferable that the type of tape (Type I or Type II) you record from be the same as the type you record onto.

How to Use the DUBBING Button

- Insert the source cassette you want to copy from into Deck A for playback.
- Insert the blank or erasable cassette you want to copy onto in to Deck B for recording.
- Press the DUBBING button.

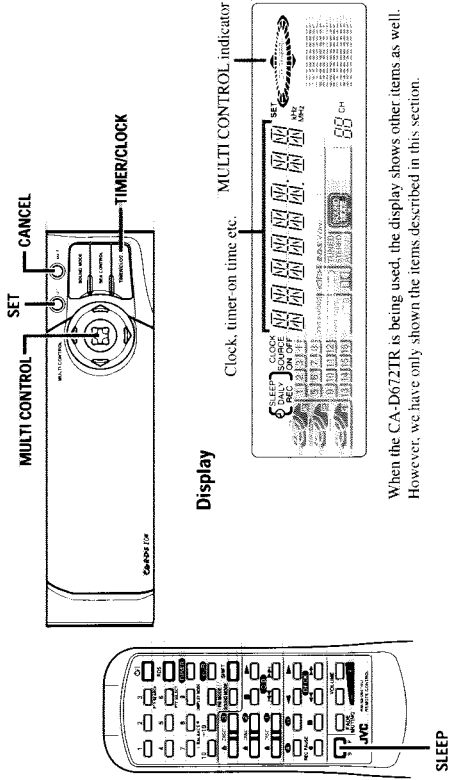
Deck A and Deck B will start simultaneously.



To stop dubbing, press the ■ button or REC START/STOP button.

- Dolby NR is inactive in dubbing mode regardless of the setting of DOLBY B NR. The dubbed tape automatically contains the same processing as the source tape.
- When doing dubbing with the DUBBING button, you can hear Sound Mode effects through the speakers or headphones. However, the sound is dubbed without Sound Mode effects.

Using the Timers



When the CA-D672TR is being used, the display shows other items as well. However, we have only shown the items described in this section.

The timers lets you control recording and listening functions automatically.

- Three types of timers are available:
 - ☐ **DAILY Timer** — Use this timer to set wake up everyday to music from any source, instead of an alarm clock.
 - ☐ **REC (Recording) Timer** — Unattended recording of radio broadcasts. You can set the starting time and length of the recording.
 - ☐ **SLEEP Timer** — Fall asleep and have your CA-D672TR turn off automatically after a certain length of time.

Setting the Clock

- 

1. **Press the TIMER/CLOCK button.**
The "CLOCK" indicator and the hour digits blink on the display.
You can set the clock whether the Unit is on or off.
Note that the clock must be set, or the timers cannot be set.
- 

2. **Set the hour by adjusting the MULTI CONTROL stick left or right.**
Adjust the MULTI CONTROL stick to the right to advance the hour setting, adjust it to the left to decrease the setting. Press the MULTI CONTROL stick continuously to increase or decrease the hour setting rapidly.
- 

3. **Press the SET button.**
The minute digits blink on the display.
- 

4. **Set the minute by adjusting the MULTI CONTROL stick left or right.**
Adjust the MULTI CONTROL stick to the right to advance the minute setting, adjust it to the left to decrease the setting. Press the MULTI CONTROL stick continuously to increase or decrease the minute setting rapidly in 10 minute steps.
- 

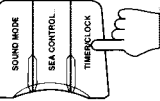
5. **Press the SET button.**
"CLOCK OK" appears on the display, and the clock starts at zero seconds from the set time.

English
English

Setting the DAILY Timer

CAUTION: If there is a power failure, the clock loses its setting. The display shows "0:00", and the clock must be reset.

With this timer you can wake up to music from a CD, tape, your favourite radio program, or other source.
☐ You can set the DAILY Timer whether the Unit is on or off.



Procedure For Setting the DAILY Timer

1. **Press the TIMER/CLOCK button so that "DAILY Timer" appears in the display.**
The message "DAILY" blinks and the DAILY indicator light blinks on the display.

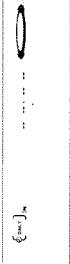


- ☐ The display changes with each press of the button, as shown below.
DAILY (blinks) → ON TIME (blinks) → REC (blinks) → ON TIME (blinks) → CLOCK (blinks)
(Clock setting mode) → original display before the TIMER/CLOCK button was pressed → (back to the beginning)

Note: If the clock has not been set, even if the TIMER/CLOCK button is pressed you cannot select the DAILY Timer.

2. **Press the TIMER/CLOCK button again.**

The display changes to the On Time display.



3. **Set the time you want the Unit to turn on.**

Set the time by adjusting the MULTI CONTROL stick left or right in the same way you set the time for the clock. Press the SET button to set the on time.



The "OFF time" hour setting starts to blink after the "ON time" minute setting is set.

4. **Set the time you want the Unit to turn off.**

Set the time by adjusting the MULTI CONTROL stick left or right in the same way you set the time for the clock. Press the SET button to set the off time.

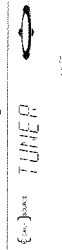
- ☐ When the off time has been set, the display changes to the source selection display.



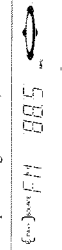
5. Select the source you want to listen to.

To use the tuner as the source:

1. Adjust the MULTI CONTROL stick left or right until "TUNER" blinks in the display.



2. Adjust the MULTI CONTROL stick up or down to select the preset channel you want to listen to. (possible only after presetting stations.)



3. Press the SET button.

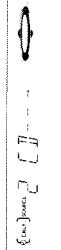


To use a CD as the source:

1. Adjust the MULTI CONTROL stick left or right until "CD" blinks in the display.



2. Adjust the MULTI CONTROL stick up or down to select the disc tray containing the CD you want to play.



3. Press the SET button.



4. Adjust the MULTI CONTROL stick up or down to select the starting track of the CD. You can only select up to 20 tracks.

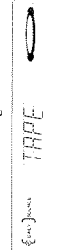


5. Press the SET button.

If you press the SET button without selecting a track, playback will start from the first track on the CD.

To use a Cassette Deck as the source:

1. Adjust the MULTI CONTROL stick left or right until "TAPE" blinks in the display.



2. Press the SET button.



To use another source:

Use this to select a radio station that has not been preset.

1. Adjust the MULTI CONTROL stick left or right until "... " blinks in the display.

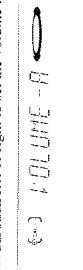


2. Press the SET button.

The last source used is selected.

6. Setting the Volume Level.

Adjust the MULTI CONTROL stick left or right to set the volume level.



VOLUME - A: Sets the volume level to 10.

VOLUME - B: Sets the volume level to 15.

VOLUME - C: Sets the volume level to 20.

VOLUME --: Sets the volume to the last volume setting used.

7. Press the SET button.

The "DAILY" indicator changes from a blinking display to a steady display. The ON TIME, OFF TIME, PLAYBACK SOURCE (including the disc number and track number if a CD source is selected) are displayed then the display reverts to the previous display, before the timer was set.

Turn the power off if you made the timer settings with the power turned on.

- A few seconds before the start for the timer, the CA-D672TR automatically turns on the power, and the "DAILY TIMER" blinks on the display. When the set time is reached, playback starts using the selected source. After the finish time for the timer is reached, the power is automatically turned off again.
- If a button is pressed when the DAILY Timer is operating, playback continues but the timer is cancelled.

Before Turning Off the Unit

- If the source is a CD, make sure that there is a CD in the selected disc number.
- If the source is a tape:
 - The tape in the deck corresponding to the Deck Indicator mark is played. Make sure that there is a tape in the selected Cassette Deck.
 - Check that the tape direction is correct. This is important especially when Reverse Mode is off.
 - Set Reverse Mode on if you want to play both sides of the tape.
- Select the Sound Mode if you want to listen using a Sound Mode effect.

To change the DAILY Timer setting

To change the settings for the DAILY Timer, repeat the setting procedure from the beginning.

Turning the DAILY Timer On and Off

Once the DAILY Timer has been set it will be activated at the same time every day until the setting is turned off.

To turn the DAILY Timer off, press the TIMER/CLOCK button until "DAILY" appears in the display. Press the CANCEL button. "OFF" appears in the display and the DAILY indicator goes out.

To turn the DAILY TIMER on again, press the TIMER/CLOCK button until "DAILY" appears in the display, then press the SET button. The Timer ON TIME, OFF TIME, PLAYBACK SOURCE (including the disc number and track number if a CD source is selected) are displayed on the display.

CAUTION: If the CA-D672TR is unplugged, or a power failure occurs, the timer setting will be erased in a few days. If the settings are erased in this way, reset the timer settings.



English

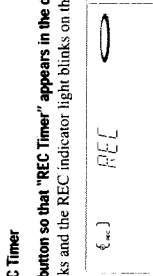
English

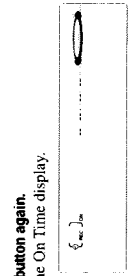
Setting the REC (Recording) Timer

With the Recording Timer you can make a tape of a radio broadcast automatically whether or not you are home. For the timer to work correctly, you need to make sure of the following in addition to setting the time for the Tuner and Cassette Deck to come on:

- ❑ You can set the REC Timer whether the Unit is on or off.
- ❑ The tape you want to record onto must be in Deck B.

Procedure for Setting the REC Timer

1. Press the **TIMER/CLOCK** button so that "REC Timer" appears in the display.
The message "REC" blinks and the REC indicator light blinks on the display.

- ❑ The display changes with each press of the button, as shown below.
DAILY (blinks) → ON TIME (blinks) → REC (blinks) → ON TIME (blinks) → CLOCK (blinks)
(Clock setting mode) → original display before the **TIMER/CLOCK** button was pressed → (back to the beginning)

- Note:** If the clock has not been set, even if the **TIMER/CLOCK** button is pressed you cannot select the REC Timer.
2. Press the **TIMER/CLOCK** button again.
The display changes to the On Time display.


3. Set the time you want the Unit to be turned on.
Set the time by adjusting the **MULTI CONTROL** stick left or right in the same way you set the time for the clock. Press the **SET** button to set the on time.
4. Set the time you want the Unit to be turned off.
Set the time by adjusting the **MULTI CONTROL** stick left or right in the same way you set the time for the clock. Press the **SET** button to set the off time.
5. Select the radio station you want to record.
Set the radio station you want to record by adjusting the **MULTI CONTROL** stick up or down.
6. Press the **SET** button.
The "REC" indicator changes from a blinking display to a steady display. The **ON TIME**, **OFF TIME**, and preset channel number are displayed then the display reverts to the previous display, before the Timer was set.
Turn the power off if you made the timer settings with the power turned on.

- ❑ A few seconds before the start time for the recording, the CA-D672TR automatically turns on the power, and "REC TIMER" blinks on the display. When the start time is reached, recording starts using the selected source. After the finish time for the recording is reached, the power is automatically turned off again.
- ❑ If a button is pressed when the REC Timer is operating, recording continues but the timer is cancelled.

Before the Timer Starts

- ❑ Check that tape direction is correct. This is important especially when Reverse Mode is off.
- ❑ Set Reverse Mode on if you want to record on both sides of the tape.
- ❑ The **VOLUME** control is automatically set to 0 when REC Timer is recording.

It is very easy, and can be very disappointing, to forget to put in a tape, or to accidentally leave a tape in Deck B you don't want recorded over. Although this happens to almost everyone at one time or another, we hope it won't happen to you!

To Change the Recording Timer Setting

To change the settings for the REC Timer, repeat the setting procedure from the beginning.

Turning the REC Timer On and Off

Once the REC Timer has been used to record a source, the setting is maintained but the Timer is set to OFF.

To turn the **REC Timer** off before the timer starts, press the **TIMER/CLOCK** button until "REC" appears in the display, then press the **CANCEL** button. "OFF" appears in the display and the REC indicator goes out.

To record at the same time again, press the **TIMER/CLOCK** button until "REC" appears in the display, then press the **SET** button. The **ON TIME**, **OFF TIME**, channel frequency, and preset channel number are displayed then the display reverts to the previous display, before the Timer was set.

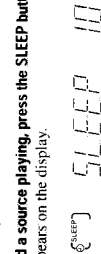
CAUTION: If the CA-D672TR is unplugged, or a power failure occurs, the timer setting will be erased in a few days. If the settings are erased in this way, reset the timer settings.

Setting the SLEEP Timer

Use the Sleep Timer to turn the Unit off after a certain number of minutes when it is playing. By setting this timer, you can fall asleep to music and know your Unit will turn off by itself rather than play all night.

- ❑ You can only set the Sleep Timer when the Unit is on and a source is playing.

To set the **SLEEP Timer**, follow this procedure:

1. With the CA-D672TR on and a source playing, press the **SLEEP** button on the Remote Control.
The message "SLEEP" appears on the display.


2. Set the length of time you want the source to play before shutting off.
❑ Each time you press this button while the "SLEEP" indicator is blinking, it changes the number of minutes shown on the display in this sequence:

→ 10 → 20 → 30 → 60 → 90 → 120 → Cancelled → (back to the beginning)

When the number of minutes you want shows on the display, just wait 5 seconds until the indicator stops blinking, and is lighted steadily.

The Unit is now set to turn off after the number of minutes you set.

To Change the SLEEP Timer Setting

Press the **SLEEP** button until the number of minutes you want appears on the display.

To Cancel the SLEEP Timer Setting

Press the **SLEEP** button until the "SLEEP" indicator goes off on the display.
Turning off the Unit also cancels the SLEEP Timer.

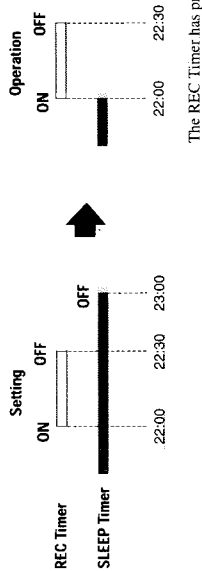
Care And Maintenance

English English

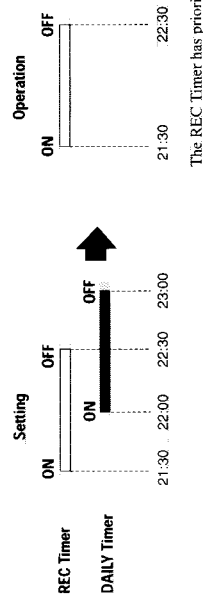
Timer Priority

- Since each timer can be set independently, you may wonder what happens if the settings overlap. Here are the priorities for each timer:
- The REC Timer always has priority. This means that:
 - If another timer is set to come on during a time when the REC Timer is operating, the other timer just won't come on at all, so you will always get the entire program on tape.
 - If the REC Timer is set to come on while another timer is operating, the other timer will shut off 10 seconds before the REC Timer is set to turn on, and the REC Timer will then take over.
 - The SLEEP Timer has the least priority. This means that if the SLEEP Timer is set while the DAILY Timer is operating, the DAILY Timer settings are cancelled. However, if the DAILY Timer is set to come on while the SLEEP Timer is operating, the SLEEP Timer setting will be cancelled and the Unit will use the settings from the DAILY Timer.

Example 1



Example 2



Compact Discs

Handle your compact discs, cassette tapes, and Cassette Deck carefully, and they will last a long time.

- Remove the CD from the case by holding it at the edges while pressing the centre hole lightly. Do not touch the shiny surface of the CD, or bend the CD.
- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.
- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line, from centre to edge.



Cassette Tapes

- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.
- Do not touch the tape surface.



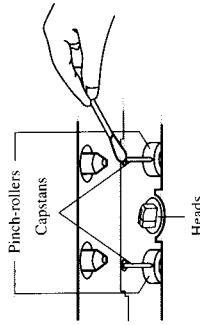
- Do not store the tape:
 - In dusty places
 - In direct sunlight or heat
 - In moist areas
 - On a TV or speaker
 - Near a magnet

Cassette Deck

- If the heads, capstans, and pinch-rollers of the Cassette Deck become dirty, the following will occur:

- Loss of sound quality
- Discontinuous sound
- Fading
- Incomplete erasure
- Difficulty recording

- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.



Moisture Condensation

Moisture may condense on the lens inside the Unit in the following cases:

- After starting the heating in the room.
 - In a damp room.
 - If the unit is brought directly from a cold to a warm place.
- Should this occur, the Unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.



General Notes

- In general, you will have the best performance by keeping your tapes, CDs, and the mechanism clean.
- Store tapes and CDs in their cases, and keep them in cabinets or on shelves.
 - Keep the Cassette Deck's tape holder and the CD trays closed when not in use.

Troubleshooting

- If you are having a problem with your CA-D672TR, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the Unit has been physically damaged, call a qualified person, such as your dealer, for service.

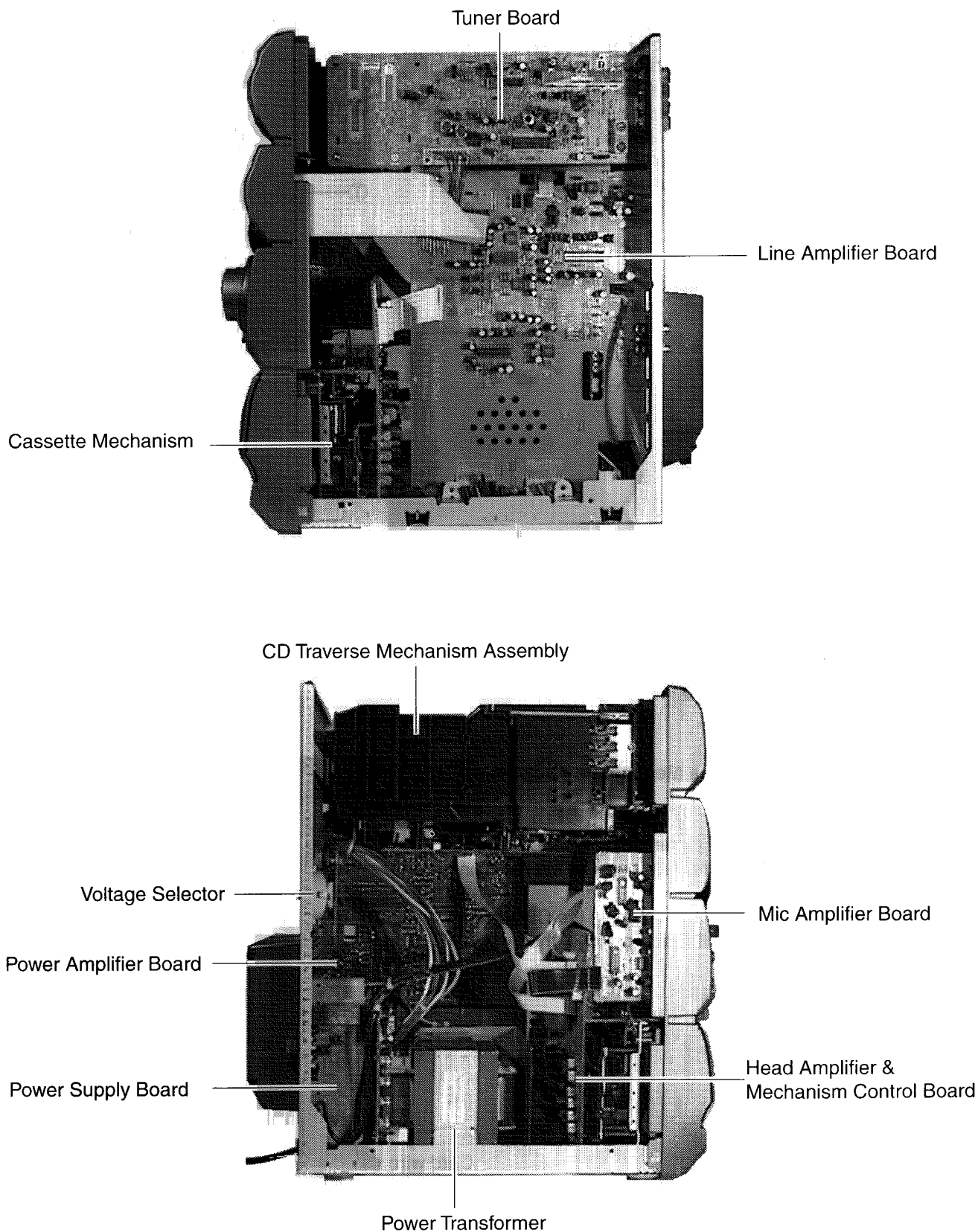
Symptom	Possible Cause	Action
No sound is heard.	Connections are incorrect, or loose.	Check all connections and make corrections. (See pages 4 - 5.)
Unable to record.	Cassette record protect tabs are removed.	Cover holes on back edge of cassette with tape.
Poor radio reception	• The antenna is disconnected. • The AM Loop Antenna is too close to the Unit. • The FM Wire Antenna is not properly extended and positioned.	• Re-connect the antenna securely. • Change the position and direction of the AM Loop Antenna. • Extend FM Wire Antenna to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
Unable to operate the Remote Control.	• The path between the Remote Control and the sensor on the Unit is blocked. • The batteries have lost their charge.	• Remove the obstruction. • Replace the batteries.
The CD tray cannot be opened.	The main AC power cord is not plugged in.	Plug in the AC power plug.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the Unit then plug it back in.
The cassette door cannot be opened.	During tape playing, the power cord was unplugged.	Plug in the power cord, press the  button, and then the  button.

Specifications

Amplifier Section Output Power (IEC 268-3/DIN) : 70 watts per channel, min. RMS, both channels driven, into 6 ohms at 1 kHz with no more than 0.5% total harmonic distortion. Input Sensitivity/Impedance (1 kHz) : VCR 300 mV/45 kohms Speaker terminals : 6 - 16 ohms Main speakers : 6 - 16 ohms	Cassette Deck Section Frequency Response : 30 - 16,000 Hz Type II (CrO ₂) : 30 - 15,000 Hz Type I (NORMAL) : 0.15% (WRMS) Wow And Flutter : 0.15% (WRMS)	CD Automatic Changer Section CD Capacity : 3 discs Dynamic Range : 93 dB Signal-To-Noise Ratio : 98 dB Wow And Flutter : Unmeasurable	Tuner Section FM Tuner : 87.5 - 108.0 MHz Tuning Range : 87.5 - 108.0 MHz AM Tuner : 522 - 1,629 kHz Tuning Range : MW 522 - 1,629 kHz LW 144-288 kHz	Dimensions : 245 x 345 x 350.2 mm (W/H/D) (9-11/16 x 13-5/8 x 13-13/16 inches) Mass : 9.0 kg (19.9 lbs)
Accessories AM (MW/LW) Loop Antenna (1) Remote Control (1) Batteries R6P (SUM-3)/AA (15F) (2) FM Wire Antenna (1)	Power Specifications Power Requirements : AC 230 V ~, 50 Hz Power Consumption : 185 watts 24 watts (in standby mode)	<i>Design and specifications are subject to change without notice.</i>		

English
English

Location of Main Parts



Removal of Main Parts

■ Removal of the Metal Cover (See Figs 1,2)

1. Remove the six screws ① fastening the metal cover to the rear panel of the main unit. (See Fig.1)
2. Remove the two screws ② fastening the metal cover to the side panel of the main unit. (See Fig.2)
3. Separead both sides of the metal cover outward and remove from the back panel by lifting upward.

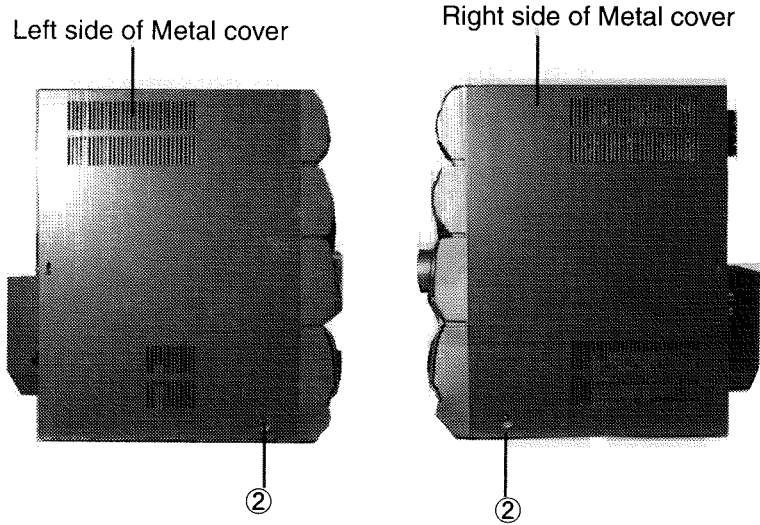


Fig.2

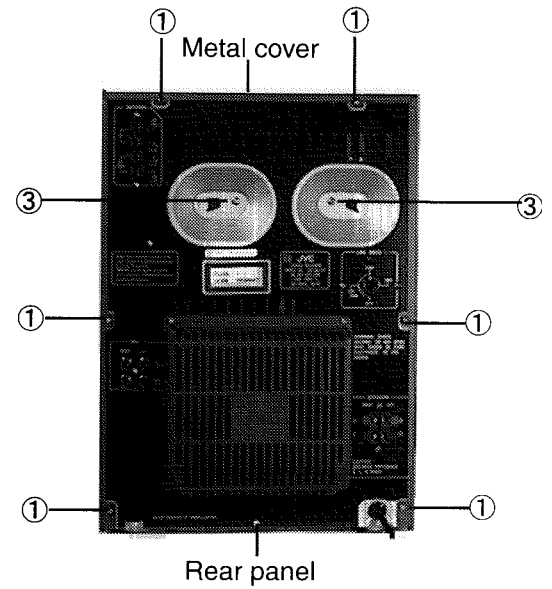


Fig.1

■ Removal of the CD Traverse Mechanism Assembly (See Figs 1,3 ~5)

1. Remove the metal cover.
2. Remove the two screws ③ fastening the CD traverse mechanism assembly to the rear panel of the main unit. (See Fig.1)
3. Remove the two screws ④ fastening the CD traverse mechanism assembly to the side panel of the main unit. (See Fig.3,4)

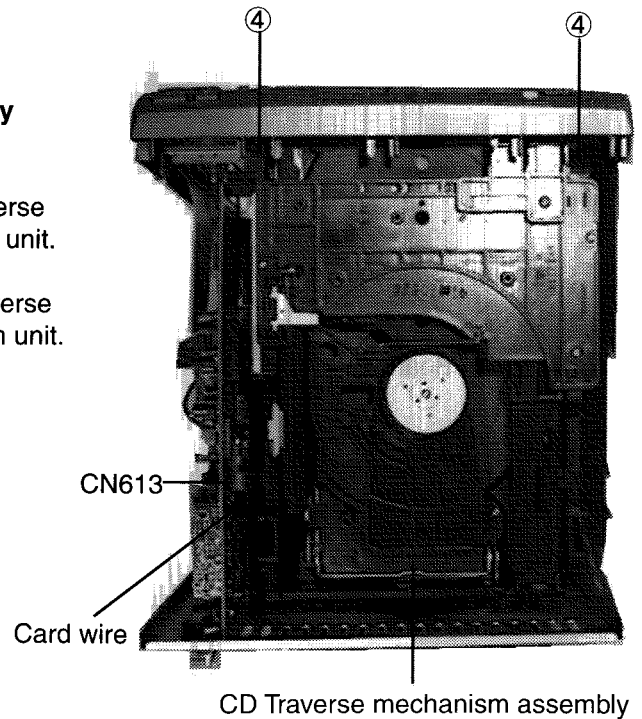


Fig. 3

4. Remove the one screw ⑤ fastening the tuner board and additional board (See Fig.4)
5. Remove the one screw ⑥ fastening the Line amplifier board.(See Fig.4)
6. Disconnect the card wires connected to the CD traverse mechanism assembly from connectors CN613 on the line amplifier board .(See Fig. 4)
7. Disconnect the card wires connected to the CD traverse mechanism assembly from connectors CN614 on the head amplifier & mechanism control board . (See Fig. 5)
8. Disconnect the card wires connected to the CD traverse mechanism assembly from connectors CN811 on the head amplifier & mechanism control board .(See Fig. 5)
9. Tilt the front panel assembly slightly forward and remove the CD traverse mechanism assembly by shifting and lifting upward.(See Fig.3)

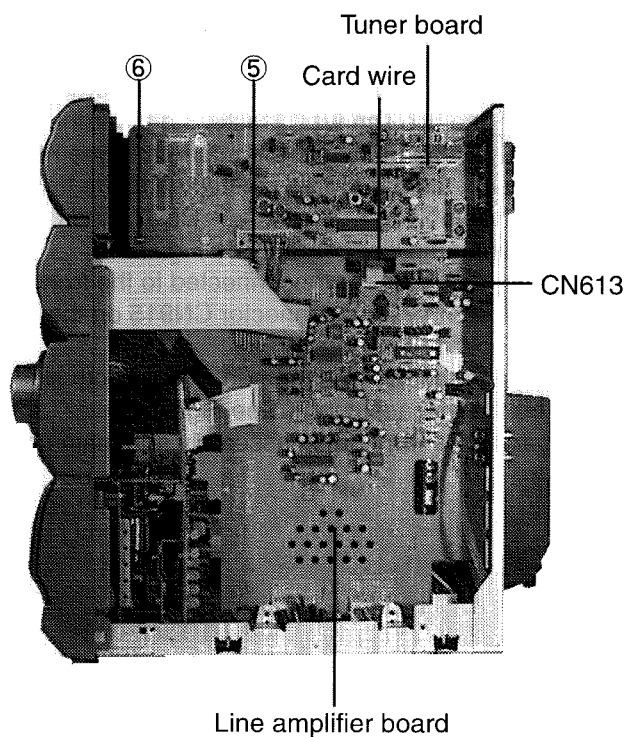


Fig.4

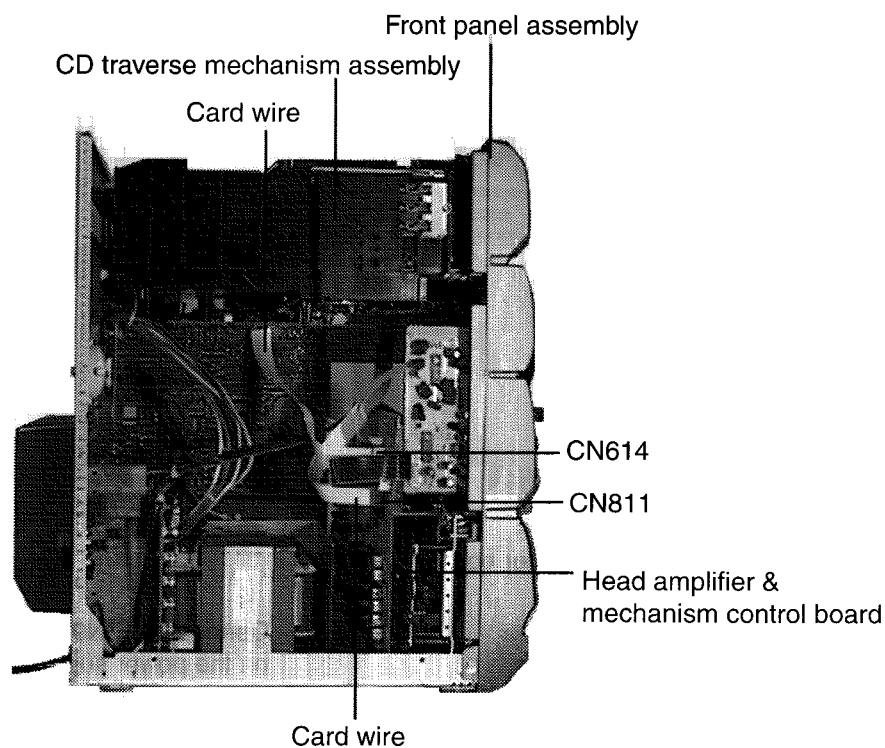


Fig. 5

■ Removal of the Front Panel Assembly (See Figs 6~8)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the two screws ⑦ fastening the front panel assembly to the bottom of the main unit. (See Fig. 6)
4. Disconnect the card wires connected to the front panel assembly from connectors CN411 and CN412 on the line amplifier board. (See Fig. 7)
5. Disconnect the 3pin wire connected to the front panel assembly from connector CN915 on the power supply board. (See Fig. 5)
6. Disengage the two engagements ① ② both side the front panel assembly. (See Figs. 5, 7)
7. Separate the front panel assembly and main unit..

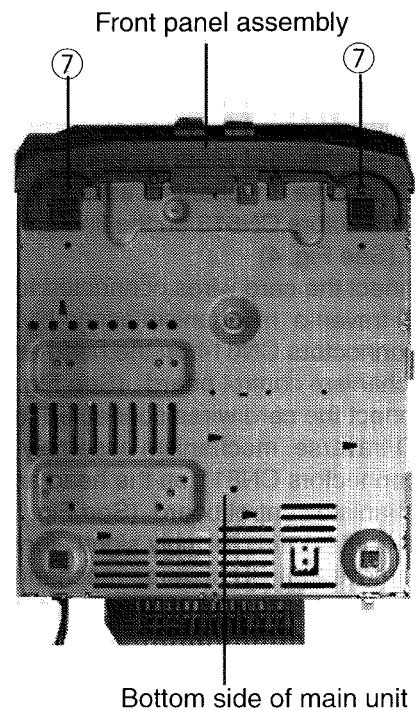


Fig. 6

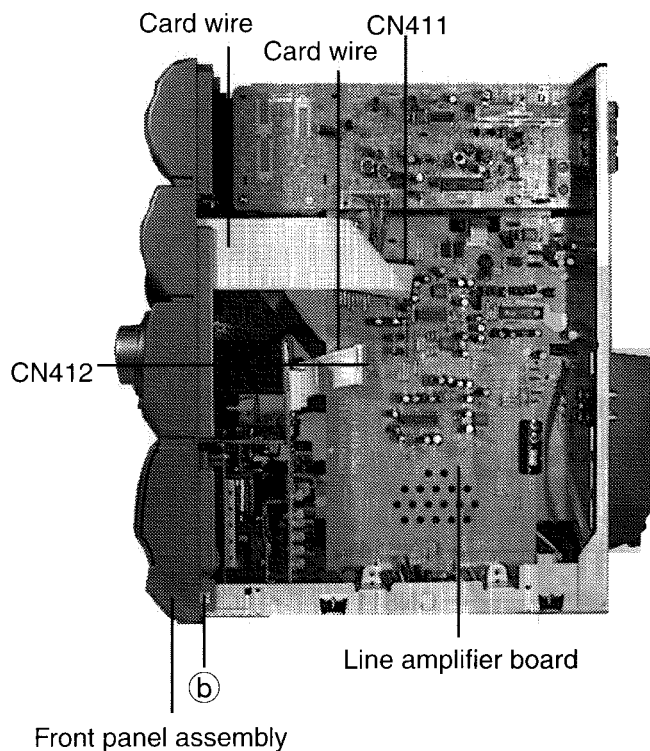


Fig. 7

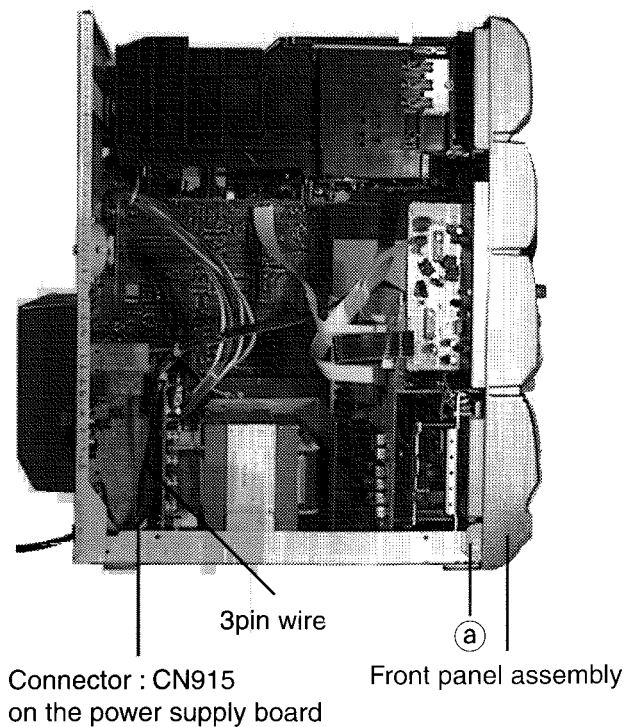


Fig. 8

《 Main Unit Section 》

■ Removal of the PowerTransformer Assembly (See Figs 9,10)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the two screws ⑧ fastening the voltage selector to the back side of the main unit.
(See Fig.9)
5. Remove the four screws ⑨ fastening the power transformer assembly to the back side of the main unit. (See Fig. 9)
5. Disconnect the connector wires connected to the power transformer board from connectors CN111 and CN009 on the power amplifier board.
(See Fig. 9)
7. Disengage the cord clamp, and dissolder the power cord from the power transformer board.

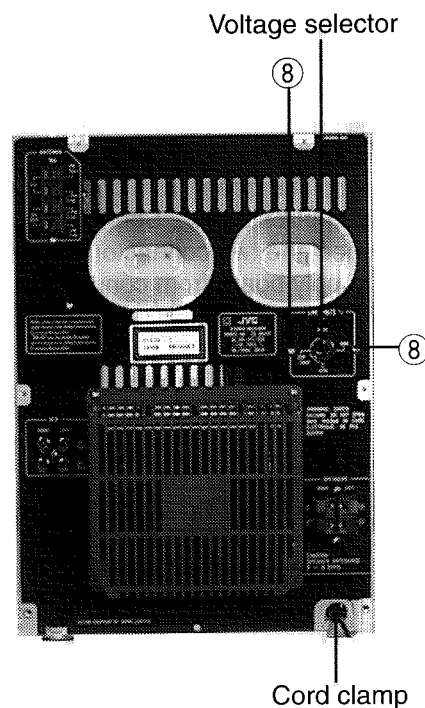


Fig. 9

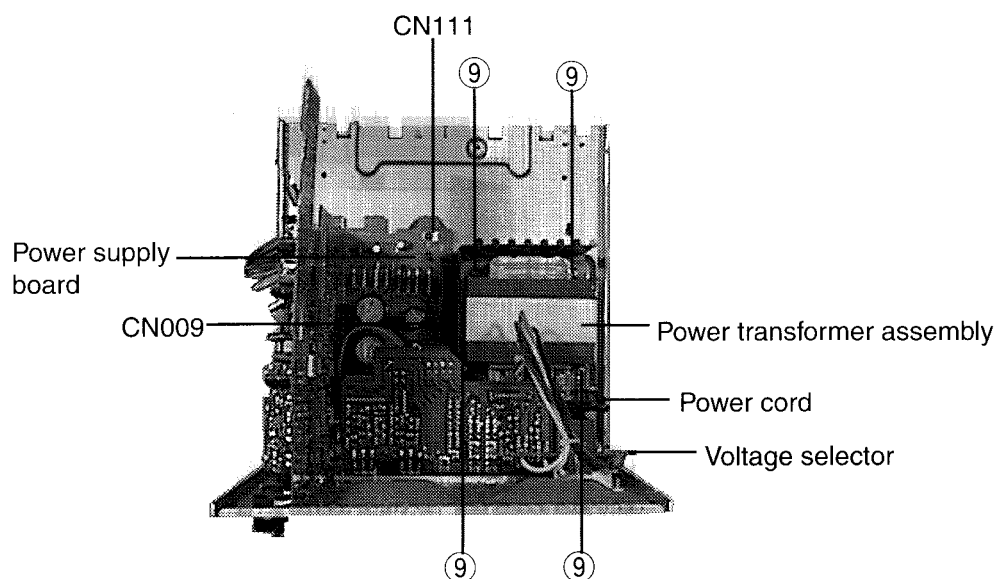


Fig. 10

■ Removal of the Tuner and Line Amplifier Boards (See Figs 11, 12)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the two screws ⑩ fastening the tuner board to the back side of the main unit. (See Fig. 11)
5. Remove the two screws ⑪ fastening the line amplifier board to the back side of the main unit. (See Fig. 11)
6. Disconnect the 3 pin connector wire connected to power amplifier board from connector CN701 on the line amplifier board. (See Fig. 12)
7. Disconnect the two connectors connected to the power supply board from connectors CN016 and CN017 on the line amplifier board. (See Fig. 12)

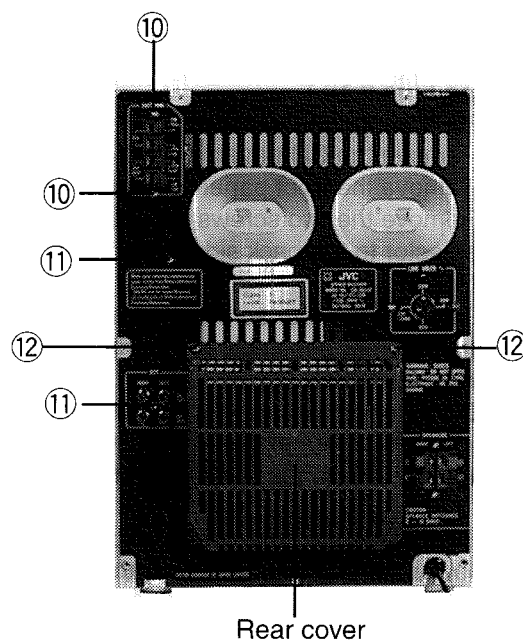


Fig. 11

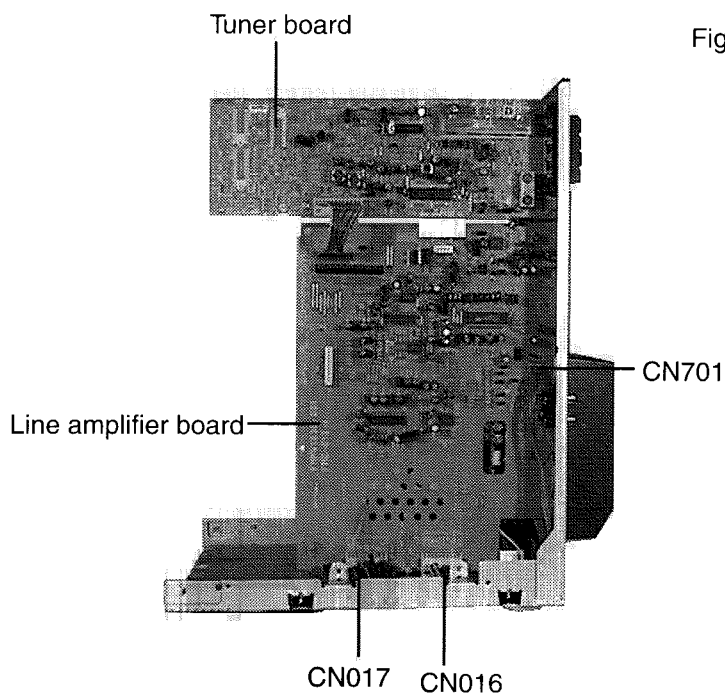


Fig. 12

■ Removal of the Power Amplifier and other Boards (See Figs 11~14)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the power transformer board assembly.
5. Remove the rear cover.
6. Remove the two screws ⑫ fastening the rear cover to the back side of the main unit. (See Fig. 11)

7. Remove the four screws ⑬ fastening the power amplifier board assembly to the back side of the main unit. (See Fig. 13)
8. Remove the two screws ⑭ fastening the power amplifier board assembly. (See Fig. 13)
9. Disconnect the connector wire connected to connector CN004 on the power supply board. (See Fig. 14)
10. Remove the three screws ⑮ fastening the power supply board. (See Fig. 14)

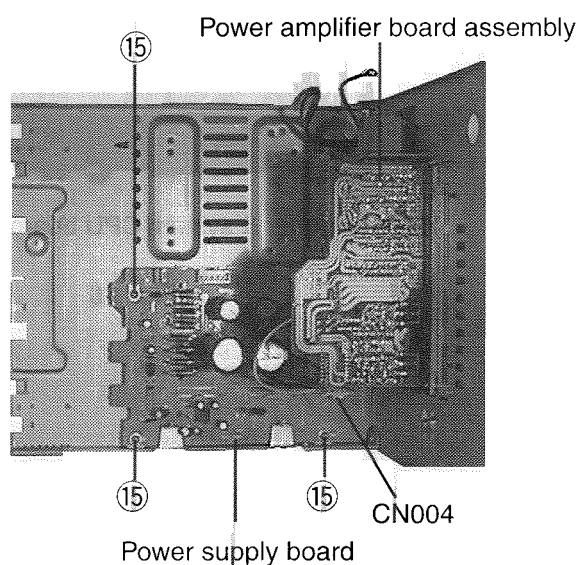


Fig. 14

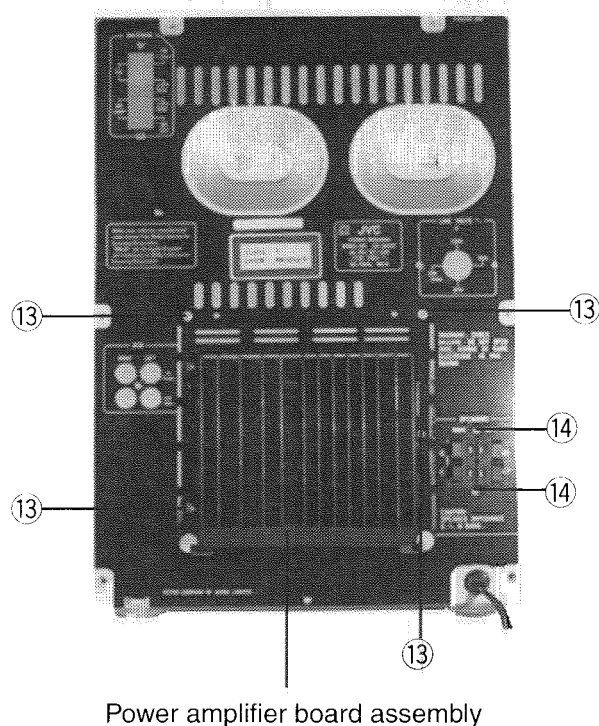


Fig. 13

《 Front Panel Assembly Section 》

■ Removal of the Head amplifier & system CPU board (See Figs 15,16)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Disconnect the two FPCs connected to cassette mechanism assembly from connectors CN331 and CN332 on the head amplifier & system CPU board.
5. Remove the two screws ⑯ fastening the head amplifier & system CPU board from the inside of the front panel assembly. (See Fig. 15)
6. Disconnect the card wire connected to front panel assembly from connector CN322 on the head amplifier & system CPU board.
7. Disconnect the connector wire connected to MIC amplifier board from connector CN422 on the head amplifier & system CPU board.

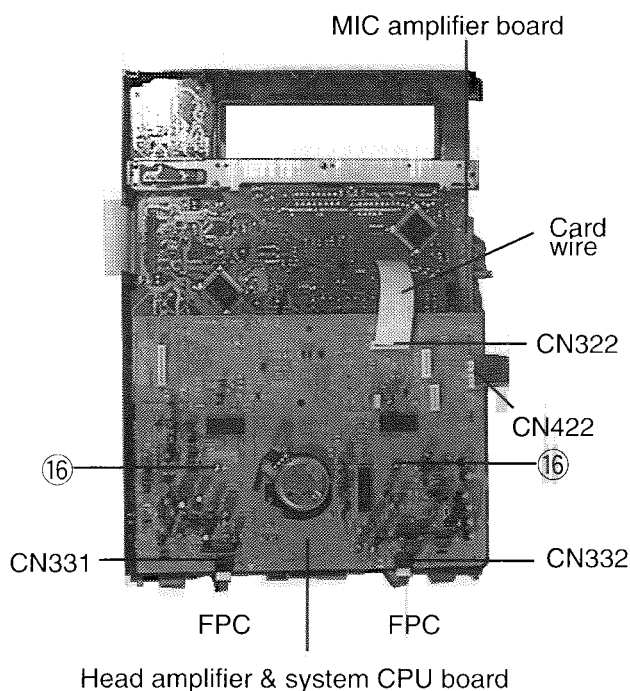


Fig. 15

8. Disengage the two engagements ③ to the head amplifier & system CPU board.(See Fig.16)
9. Lift upward the head amplifier & system CPU board, and disconnect the two connectors connected to mechanism control board from the connectors CN311, CN322.(See Fig.16)

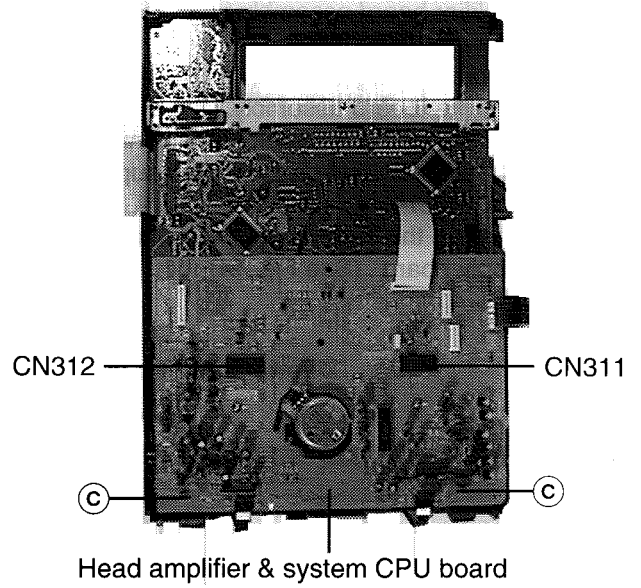


Fig. 16

■ Removal of the Cassette Mechanism Assembly (See Figs 17, 18)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the head amplifier & system CPU board.
5. Remove the eight screws ⑰ fastening the cassette mechanism assembly from the inside of the front panel assembly.(See Fig.17)
6. Remove the two screws ⑱ fastening the cassette mechanism assembly from the bottom side of the front panel assembly.(See Fig.18)
7. Press the both "EJECT"button and open the both door.
8. Take out the cassette mechanism assembly.

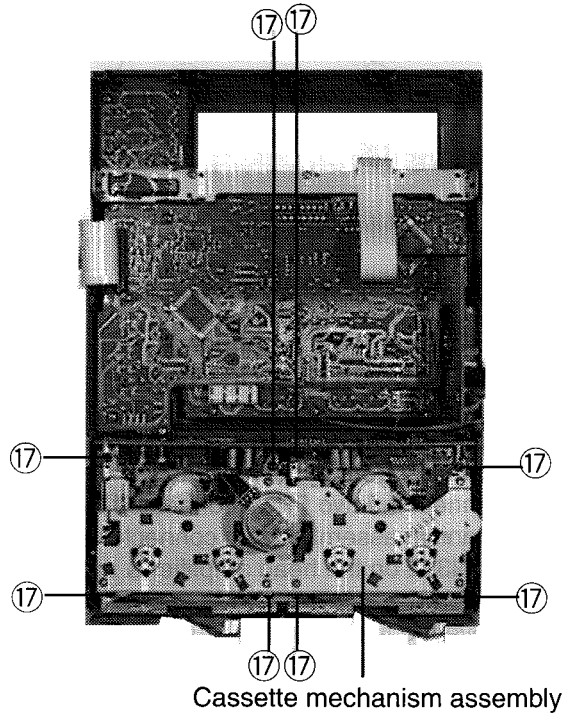


Fig. 17

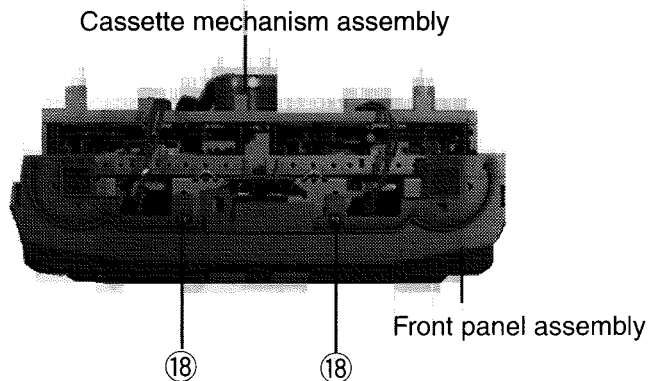


Fig. 18

■ Removal of the FL Drive, MIC Amplifier Board (See Figs 19,20)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the head amplifier & system CPU board.
5. Pull out the MIC volume knob.
6. Remove the two screws ⑲ fastening the fixing board, take out the MIC amplifier board .(See Fig.19)
6. Remove the four screws ⑳ fastening the stay bracket from the inside of the front panel assembly.(See Fig.19)
7. Remove the eleven screws㉑ fastening the FL drive board from the inside of the front panel assembly.(See Fig.20)

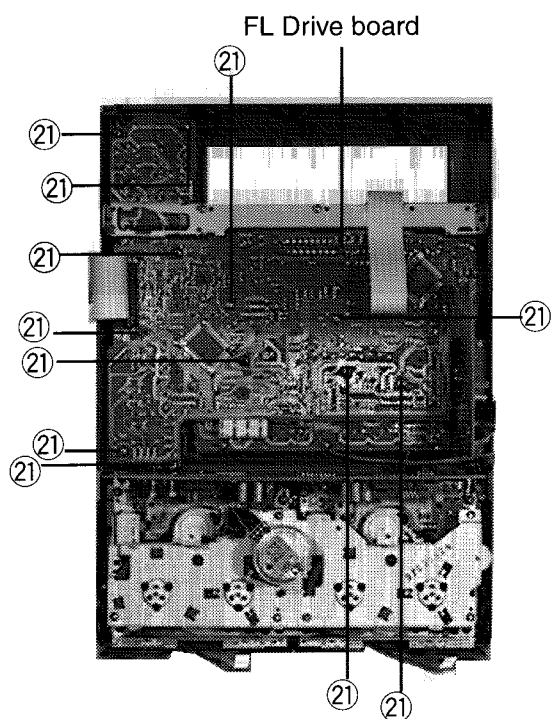


Fig. 20

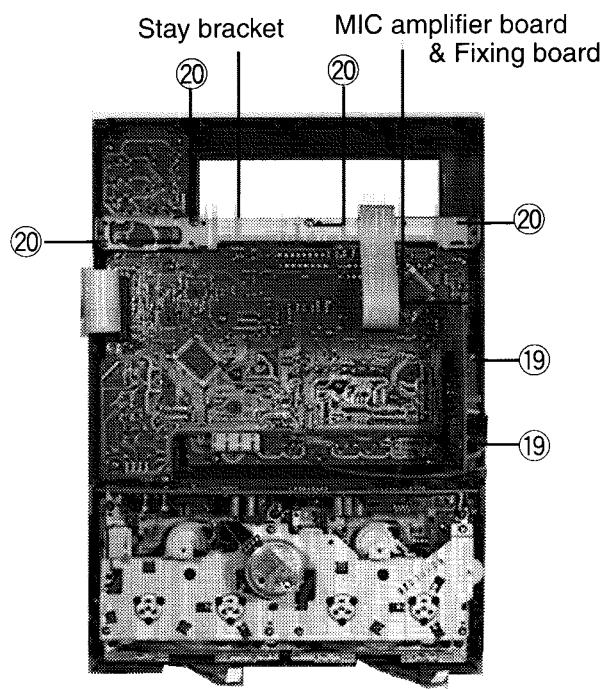


Fig. 19

■ **Removal of the Operation Switch Board**
(See Fig. 21)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the MIC amplifier board.
5. Remove the stay bracket.
6. Remove the FL driver board.
7. Remove the five screws ②② fastening the operation switch board.

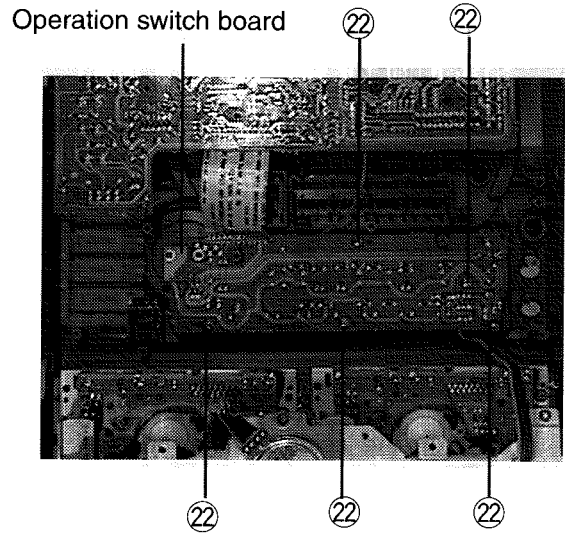


Fig. 21

■ **Removal of the Mechanism Control Board**
(See Fig. 22)

1. Remove the metal cover.
2. Remove the CD traverse mechanism assembly.
3. Remove the front panel assembly.
4. Remove the head amplifier & system CPU board.
5. Remove the two screws ②③ mechanism control board.
6. Disconnect the two connectors to connected to reel pulse board from connectors CN313,CN314 on the mechanism control board.

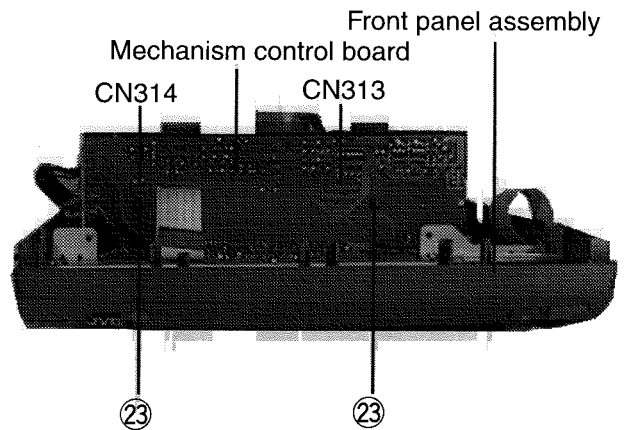


Fig. 22

«CD Traverse Mechanism Type:VC3 Section»

■ Removing the CD Servo control board (See Fig.1)

- 1.Remove the metal cover.
- 2.Remove the CD changer mechanism assembly.
- 3.From bottom side the CD changer mechanism assembly, remove the two screws 1 retaining the CD servo control board.
- 4.Absorb the four soldered positions "M" of the right and left motors with a soldering absorber.
- 5.Pull out the earth wire on the CD changer mechanism assembly.
- 6.The two screws A is removed and C.B.holder is detached.
- 7.Disconnect the connector CN854 on the CD servo control board.
- 8.Disconnect the card wire CN601 and the connector CN801 on the CD servo control board.

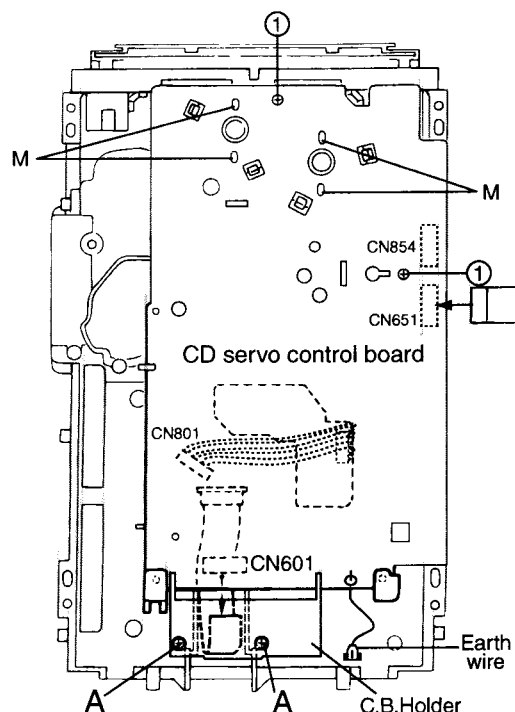


Fig.1

■ Removing the CD tray assembly (See Fig.2~4)

1. Remove the front panel assembly.
2. Remove the CD changer mechanism assembly.
3. Remove the CD Servo control board.
4. From the T.bracket section "B" and clamber base section "C", remove both of the edges fixing the rod(See Fig.2 and 3).
5. Remove the screw 2 retaining the Disc stopper (See Fig.3).
6. Remove the three screws 3 retaining the T.bracket (See Fig.3).
7. Remove the screws 4 retaining the clamber assembly (See Fig.3).
8. From the left side face of the chassis assembly, remove the one screw 5 retaining both of the return spring and lock lever(See Fig. 4).
9. By removing the pawl at the section "D" fixing the return spring, dismount the return spring(See Fig.4).
10. Remove the three lock levers(See Fig.4).

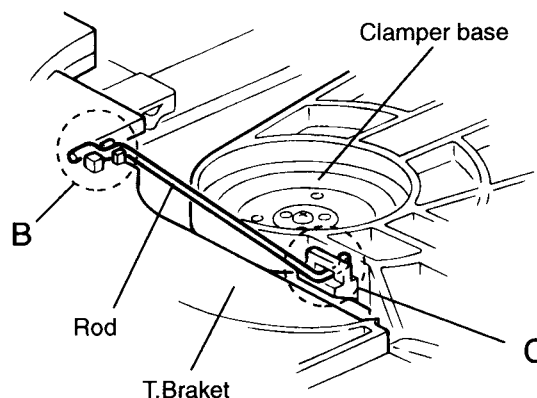


Fig.2

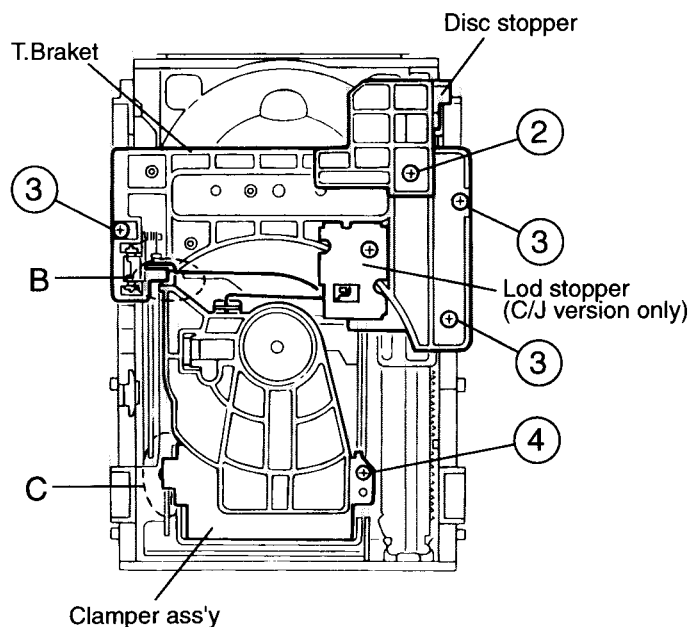


Fig.3

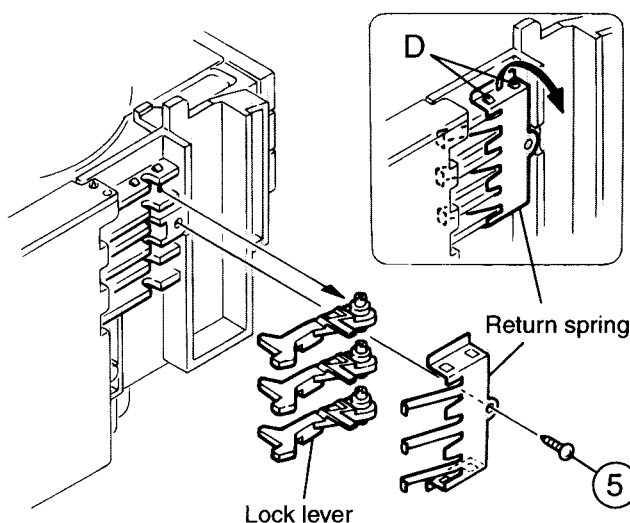


Fig.4

11. Check whether the lifter unit stopper has been caught into the hole at the section E of CD tray assembly as shown in Fig.5.

12. Make sure that the driver unit elevator is positioned as shown in Fig.6 from to the second or fifth hole on the left side face of the CD changer mechanism assembly.

[Caution] In case the driver unit elevator is not at above position, set the elevator to the position as shown in Fig.7 by manually turning the pulley gear as shown in Fig.8.

13. Manually turn the motor pulley in the clockwise direction until the lifter unit stopper is lowered from the section E of CD tray assembly (See Fig.8).

14. Pull out all of the three stages of CD tray assembly in the arrow direction F until these stages stop (See Fig.6).

15. At the position where the CD tray assembly has stopped, pull out the CD tray assembly while pressing the two pawls G and G' on the back side of CD tray assembly (See Fig.9). In this case, it is easy to pull out the assembly when it is pulled out first from the stage CD tray assembly.

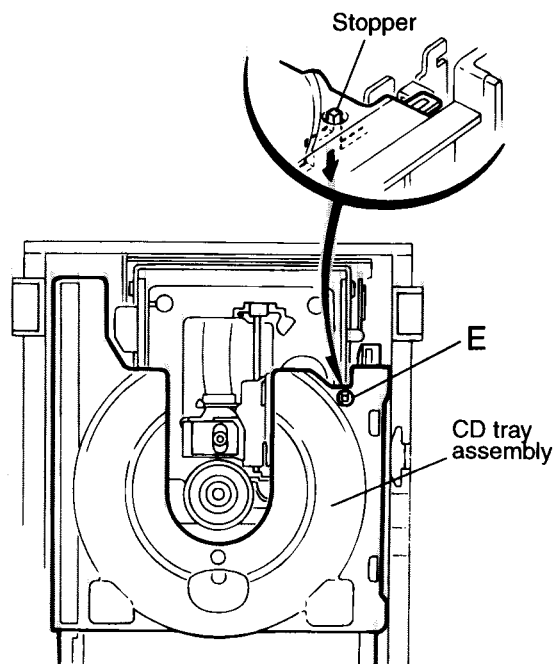


Fig.5

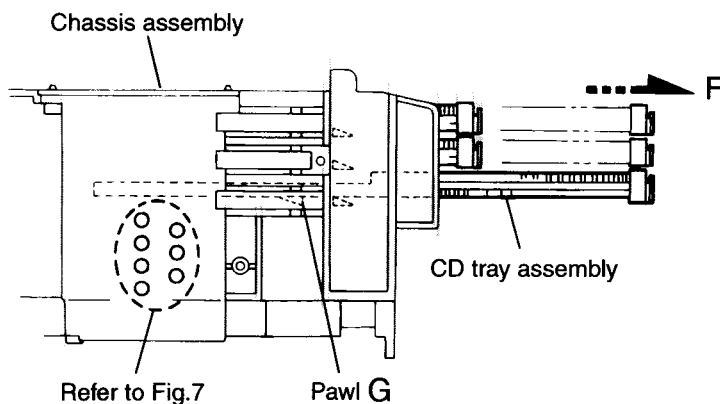


Fig.6

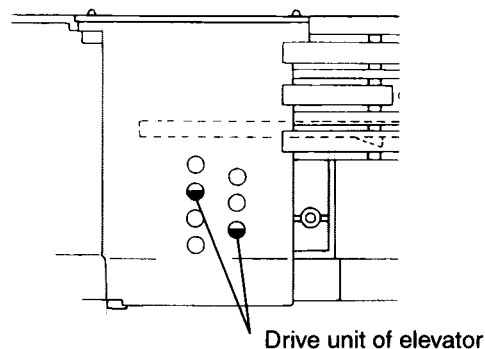


Fig.7

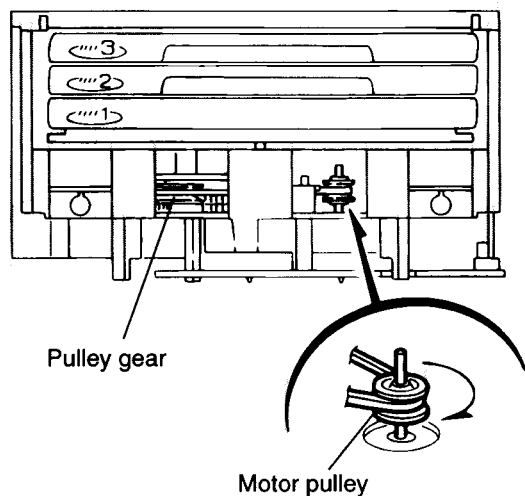


Fig.8

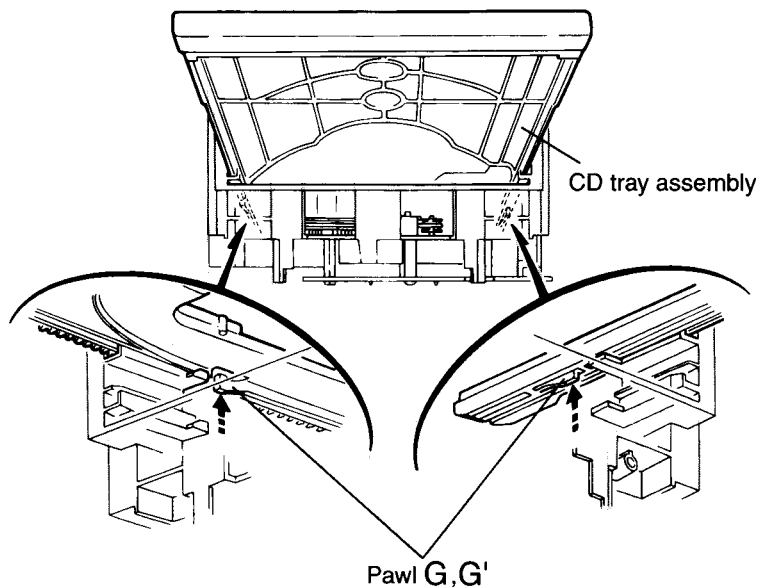


Fig.9

■ Removing the CD loading mechanism assembly (See Fig.10)

1. While turning the cams R1 and R2 assembly in the arrow direction "H", align the shaft "I" of the CD loading mechanism assembly to the position shown in 2. Fig.10.
2. Fig.10.
Remove the four screws 6 retaining the CD loading mechanism assembly.

■ Removing the CD traverse mechanism (See Fig.11 and 12)

1. For dismounting only the CD traverse mechanism without removing the CD loading mechanism assembly, align the shaft "J" of the CD loading mechanism assembly to the position shown Fig.11 while turning the cam R1 and R2 assembly in the arrow direction "K".
2. By raising the CD loading mechanism assembly in the arrow direction "L", remove the assembly from the lifter unit

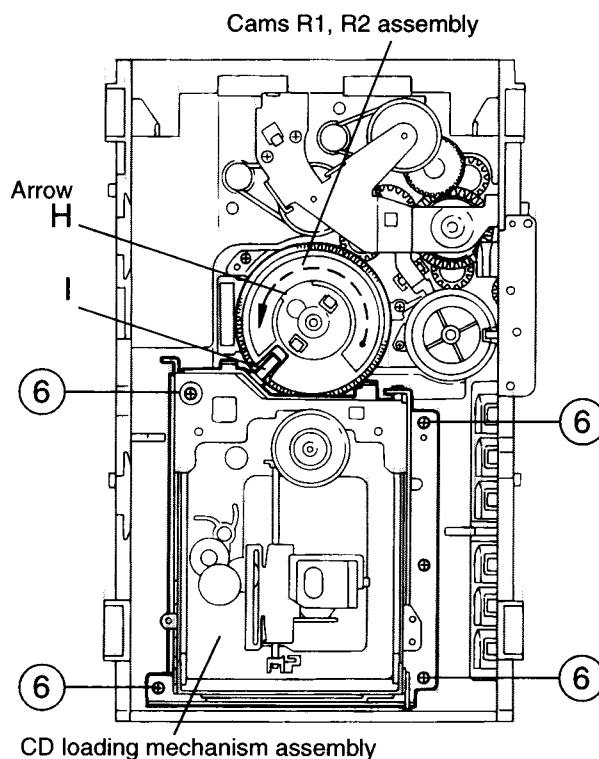


Fig.10

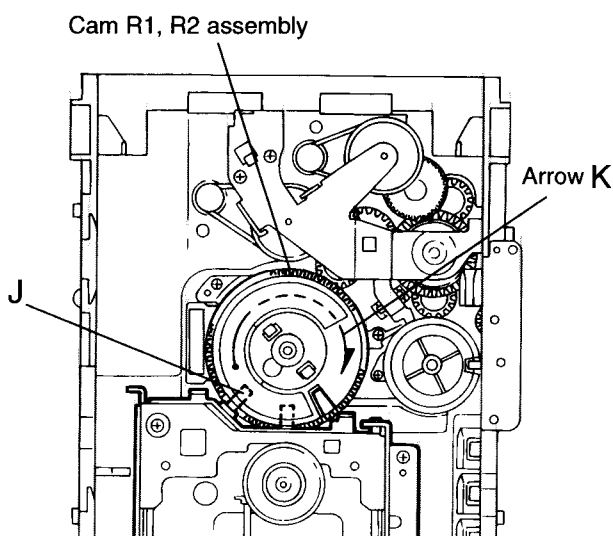


Fig.11

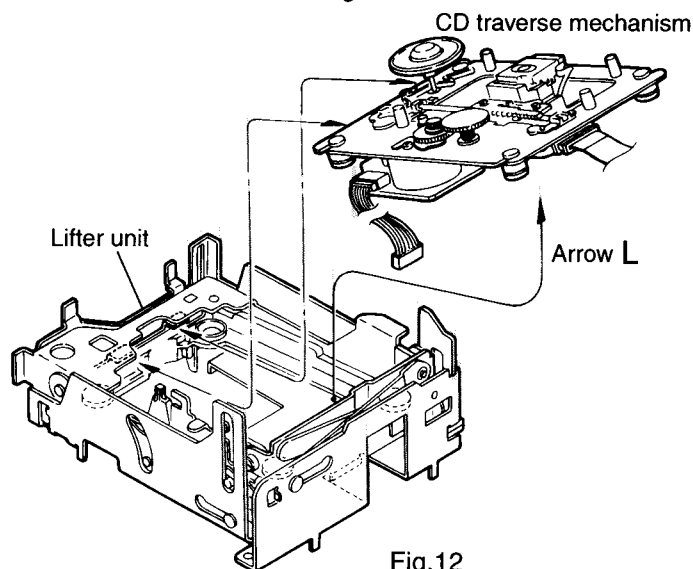


Fig.12

■ Removing the CD pick unit (See Fig.13)

1. Move the cam gear in the arrow direction a. Then, the CD pickup unit will be moved in the arrow direction b.
2. According to the above step, shift the CD pickup unit to the center position.
3. While pressing the stopper retaining the shaft in the arrow direction c, pull out the shaft in the arrow direction d.
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit

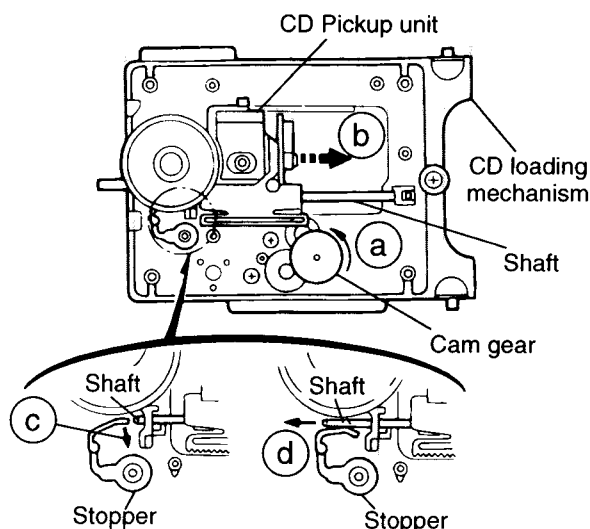


Fig.13

■ Removing the actuator motor board (See Fig.14, 15)

1. Absorb the four soldered positions "M" of the right and left motors with a soldering absorber(See Fig.14).
2. Remove the two screws 7 retaining the actuator motor board(See Fig.14).
3. Remove the two screws 8 retaining the tray select switch board(See Fig.15).

■ Removing the cam unit (See Fig.15 ~18)

1. Remove the CD loading mechanism assembly.
2. While turning the cam gear L, align the pawl "N" position of the drive unit to the notch position(Fig.16) on the cam gear L.
3. Pull out the drive unit and cylinder gear(See Fig.17).
4. While turning the cam gear L, align the pawl "O" position of the select lever to the notch position(Fig.18) on the cam gear L.
5. Remove the four screws 9 retaining the cam unit(cam gear L and cams R1/R2 assembly)(See Fig.18).

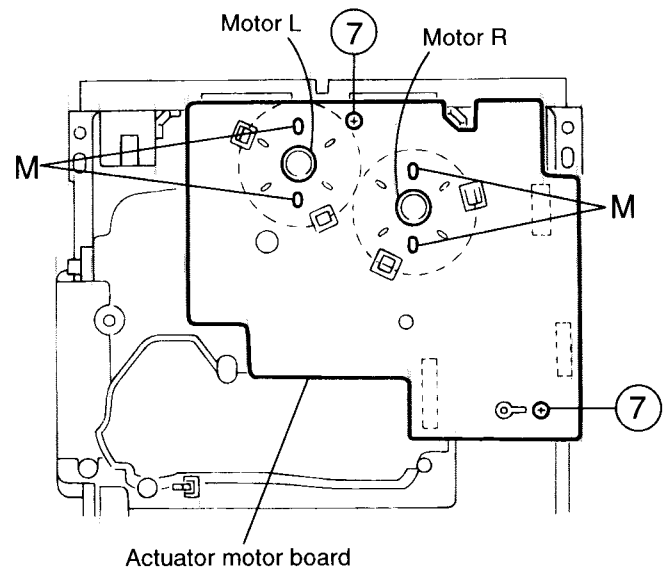


Fig.14

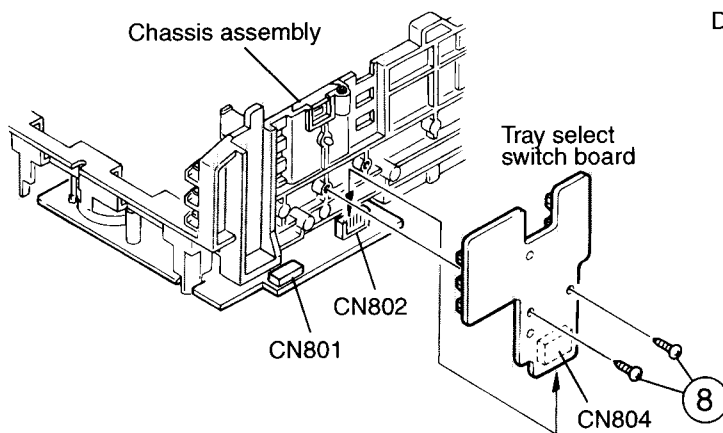


Fig.15

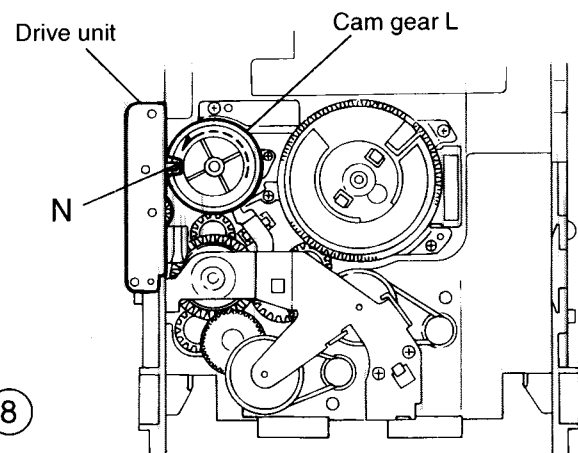


Fig.16

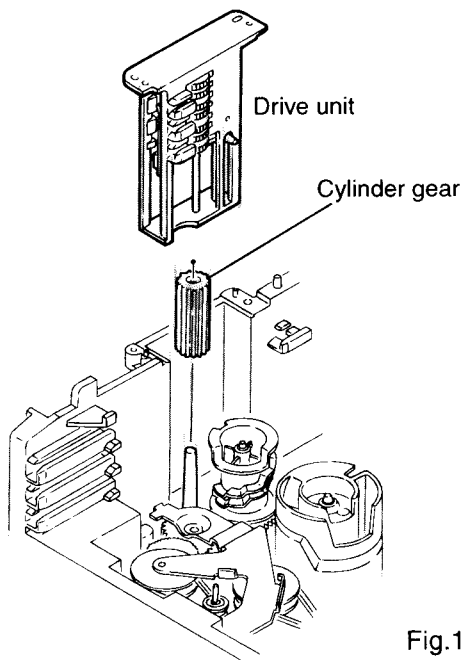


Fig.17

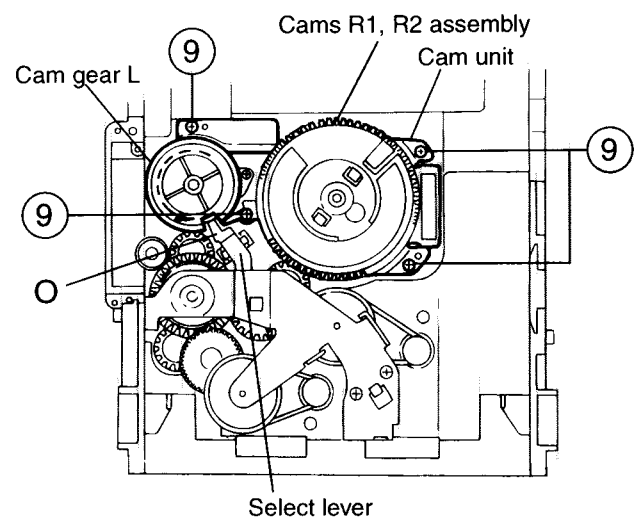


Fig.18

■ Removing the actuator motor and belt (See Fig.19~22)

1. Remove the two screws 10 retaining the gear bracket
(See Fig.19).
2. While pressing the pawl "P" fixing the gear bracket in the arrow direction, remove the gear bracket
(See Fig.19).
3. From the notch "Q section" on the chassis assembly fixing the edge of gear bracket, remove and take out the gear bracket(See Fig. 20).
4. Remove the belts respectively from the right and left actuator motor pulleys and pulley gears(See Fig. 19).
5. After turning over the chassis assembly, remove the actuator motor while spreading the four pawls "R" fixing the right and left actuator motors in the arrow direction(See Fig. 21).

[Note] When the chassis assembly is turned over under the conditions wherein the gear bracket and belt have been removed, then the pulley gear as well as the gear, etc. constituting the gear unit can possibly be separated to pieces. In such a case, assemble these parts by referring to the assembly and configuration diagram in Fig. 22.

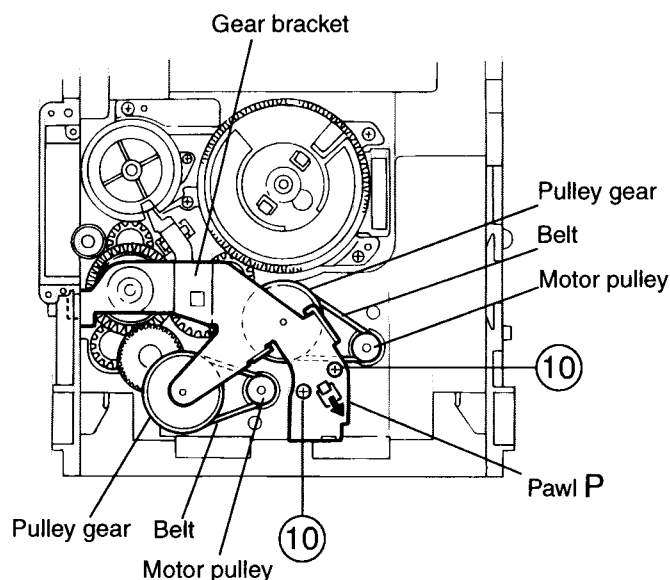


Fig.19

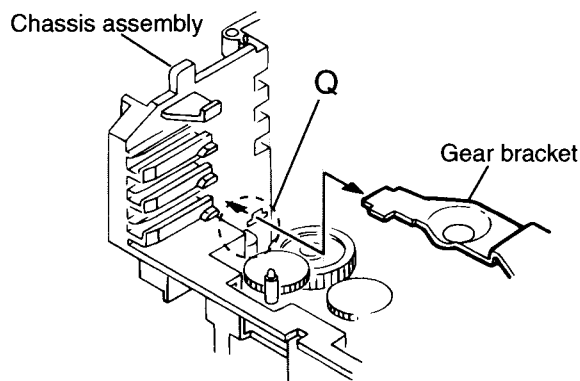


Fig.20

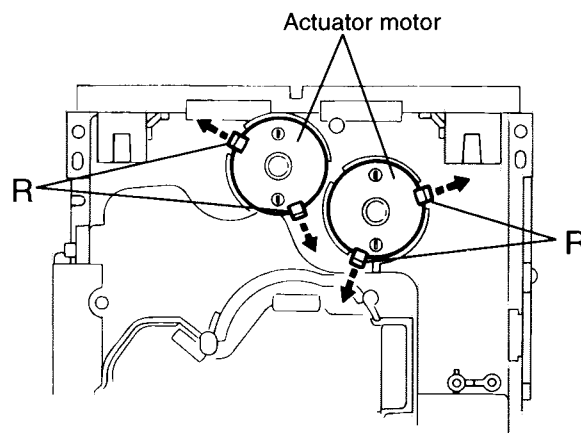


Fig.21

Assembly and Configuration Diagram

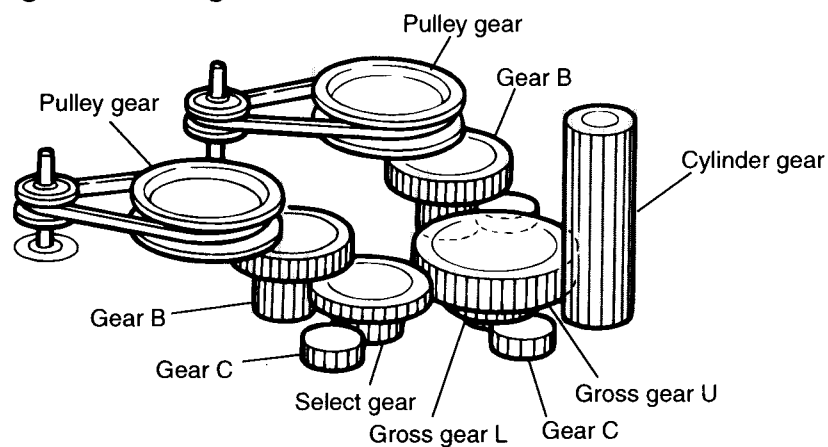


Fig.22

■ Removing the cams R1/R2 assembly and cam gear L (See Fig.23)

1. Remove the slit washer fixing the cams R1 and R2 assembly.
2. By removing the two pawls "S" fixing the cam R1, separate R2 from R1.
3. Remove the slit washer fixing the cam gear L.
4. Pull out the cam gear L from the C.G. base assembly.

■ Removing the C.G. base assembly (See Fig.23 and 24)

Remove the three screws 11 retaining the C.G. base assembly.

[Caution] To reassemble the cylinder gear, etc. with the cam unit (cam gear and cans R1/R2 assembly), gear unit and drive unit, align the position of the pawl "N" on the drive unit to that of the notch on the cam gear L. Then, make sure that the gear unit is engaged by turning the cam gear L (See Fig. 24).

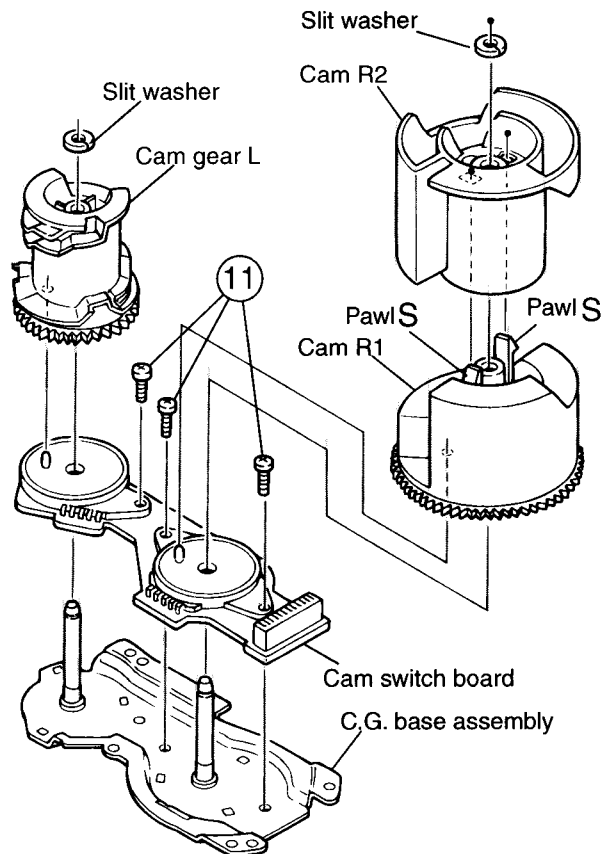


Fig.23

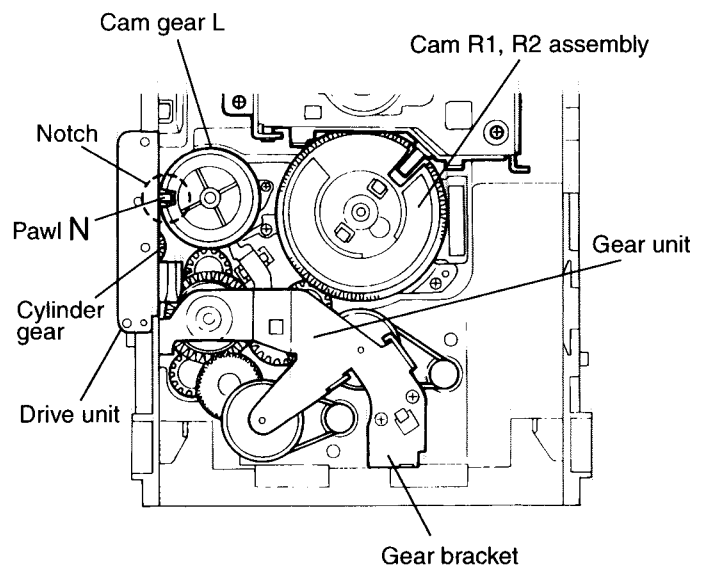


Fig.24

«Cassette Mechanism(Type:NEXT-W2M)Section»

■Head assembly removal(See Fig.1)

1. Remove the Cassette mech. ass'y.
2. Remove the flexible wire from the cassette deck and remove the 3 screws 1 holding the head ass'y.

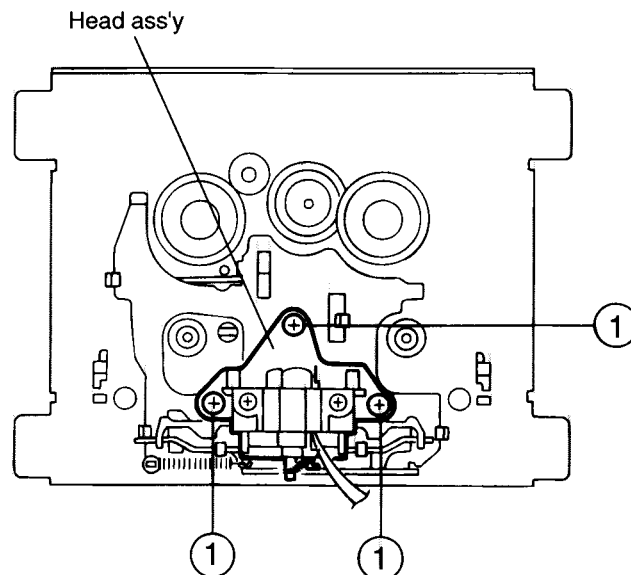


Fig.1

■Head assembly(See Fig.2~3)

1. The direction of the head is changed with the direction lever. When servicing, install the direction lever according to the direction of the head assembly.

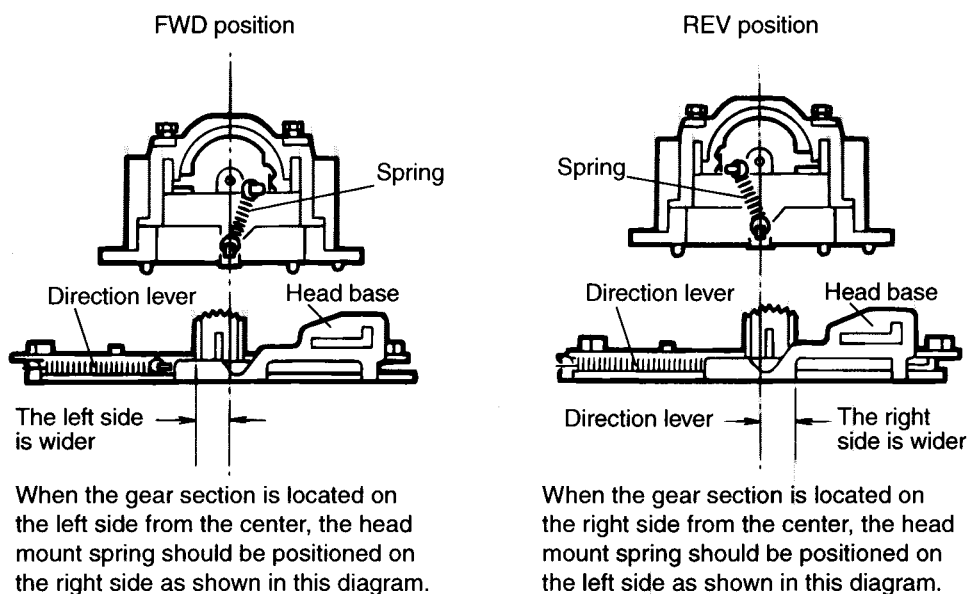


Fig.2

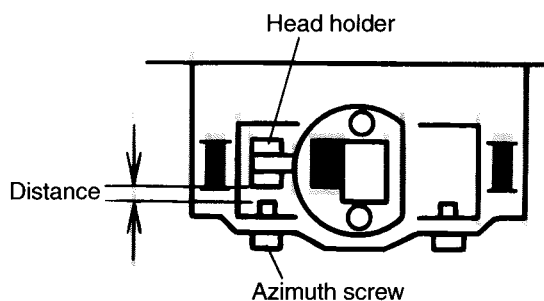


Fig.3

■ Pinch roller(FWD/REV)removal (See Fig.4)

1. Remove the cassette mech. assembly.
2. Remove the hook (a) holding the pinch roller.
3. Remove the pinch roller ass'y.

At the time of assembly,
the stud should be inserted
into the direction lever.

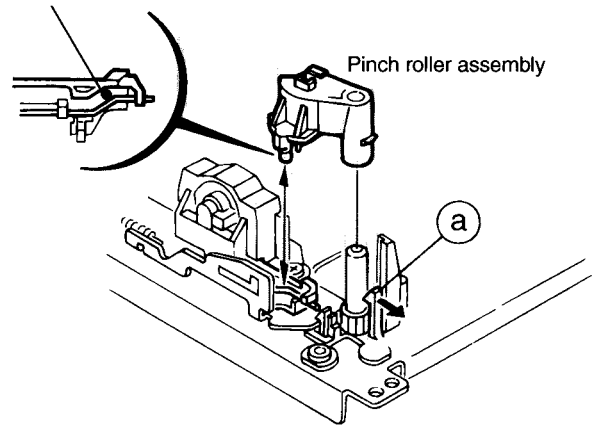


Fig.4

■ Capstan motor removal(See Fig.5~7)

1. Remove the cassette mechanism.
2. Remove the cassette deck control PCB.
3. Remove the 6 screws 2 holding the bracket.
4. Remove the hooks (b) of the bracket.
5. Put the cutting on the flywheel A together the bracket's pall as shown in fig.5(Flywheel A)and check that the flywheel B is removed from the bracket's pall(fig.5,6 Flywheel B).
6. Remove the capstan motor with the bracket.
7. Unsolder the broken flat wire of the capstan motor.
8. Remove the 2 screws fixing the motor and the bracket.

*To remove the bracket, it is easier to remove mech "B" first.

Vice versa, assembling mech "B" is easier for ressembly.

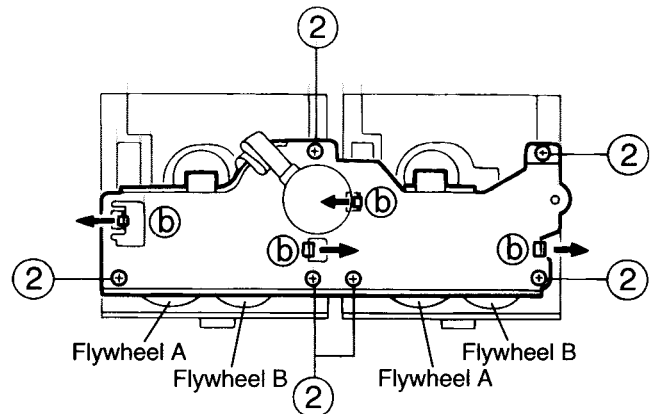


Fig.5

■ Flywheel removal(See Fig.5~7)

1. Remove the cassette mechanism assembly.
2. Remove the cassette amp PCB.
3. Remove the 6 screws 2 and the bracket.
4. Remove the 4 hooks of the bracket.
5. Remove the bracket.
6. Remove the flywheel.

*The oil on the capstan must be wiped out after ressembling.

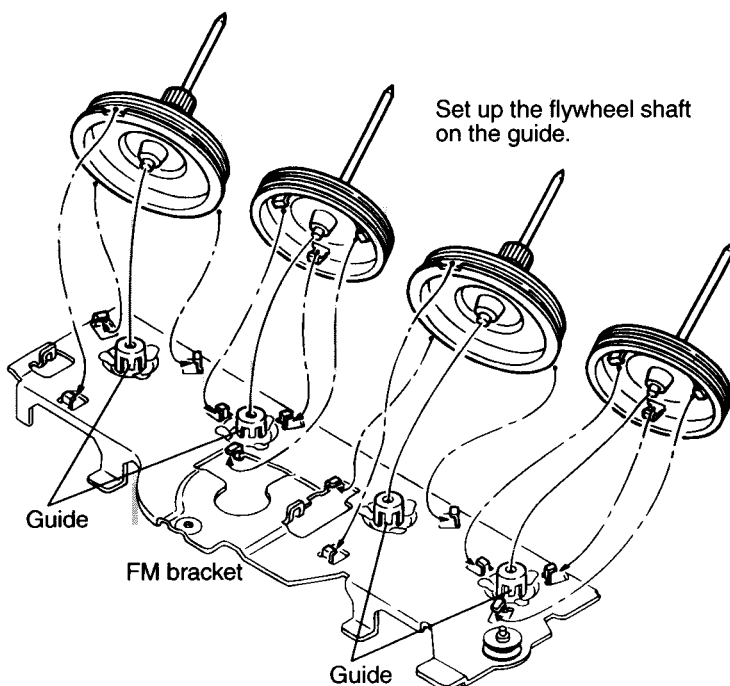


Fig.6

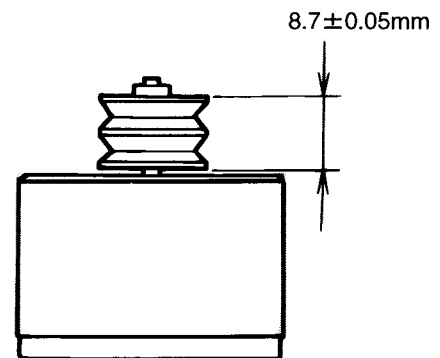
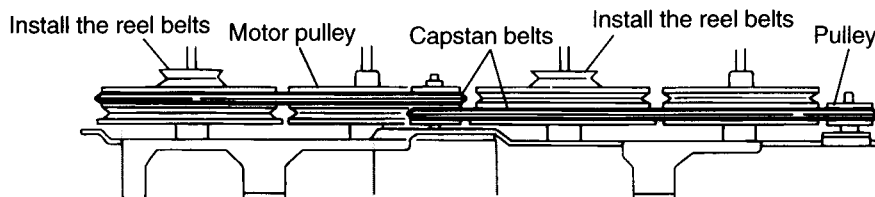
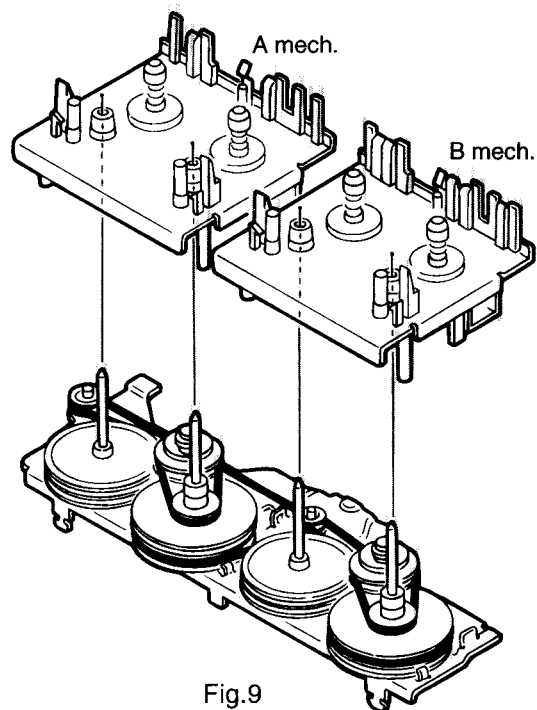
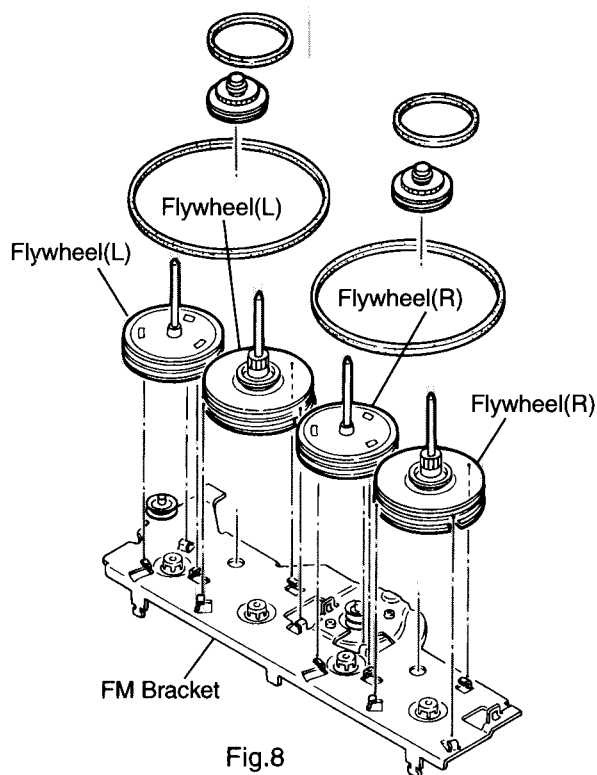


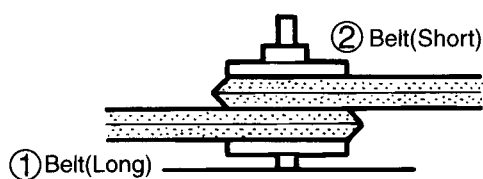
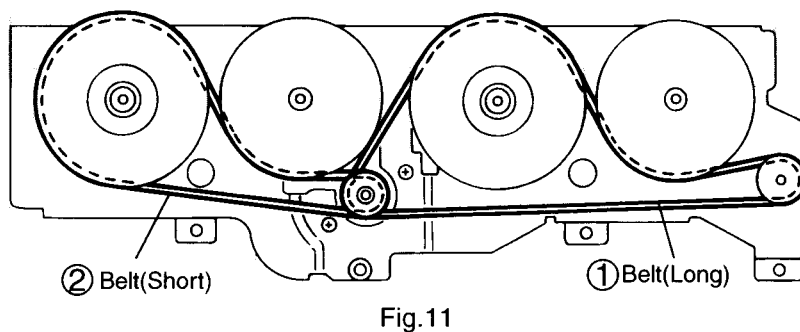
Fig.7

■ How to install the belts(See Fig.8~12)

1. Install the flywheels and belts as shown in the figure below.
When putting the belts, put the long belt first.
2. Install the main reels to put the belts on the flywheels.



REEL BELTS→After hooking reel belts, no twist.



■ Switch PCB removal (See Fig.13)

1. Remove the flywheel.
2. Remove the 1 screw 3.
3. Unsolder the broken solenoid.
4. Release the 4 hooks (c) holding the switch PCB.
5. Remove it.

■ Control cam removal (See Fig.14~17)

1. Remove the FM bracket and flywheel.
2. Pull out the main pulley.
3. Remove the trigger arm.

While opening the two tabs (d) under the trigger arm, pull out the trigger arm from the shaft.
4. Pull out the elevator ring.
5. Remove the FWD/REV arm assembly.
 - a. Remove the FWD/REV arm spring.
 - b. While opening the four FWD/REV arm retaining tabs (e) outwards, pull out the FWD/REV arm.
6. Pull out the control cam.

While pulling the shaft stopper section of the control cam in the central direction, pull out the control cam.

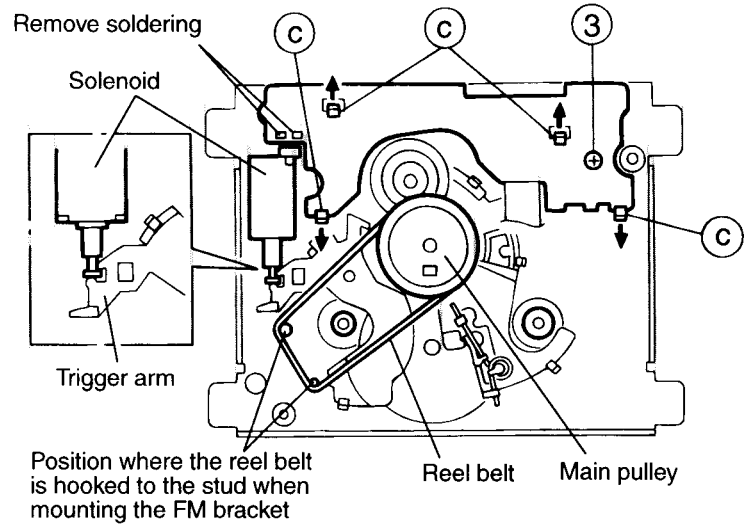


Fig.13

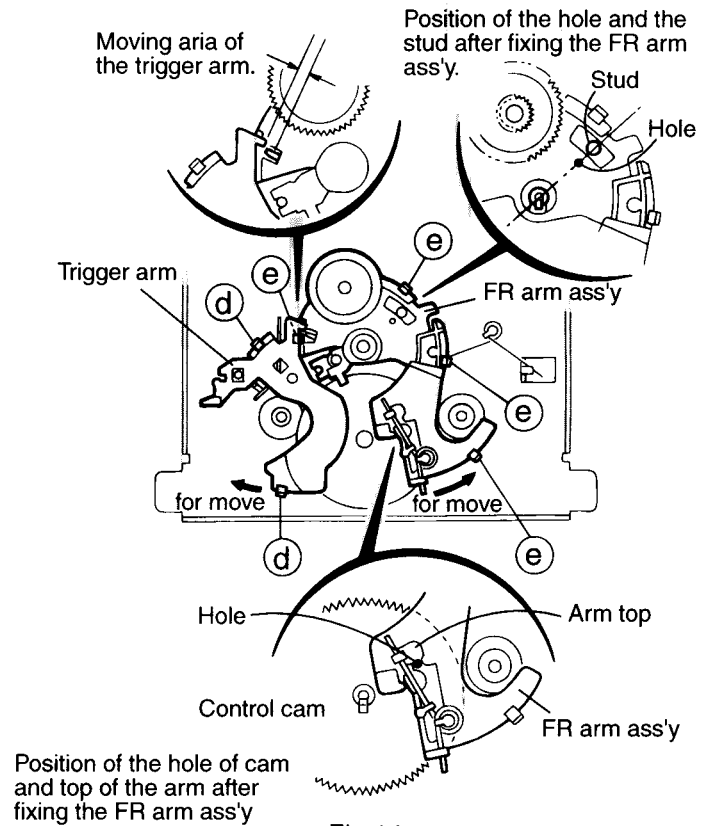


Fig.14

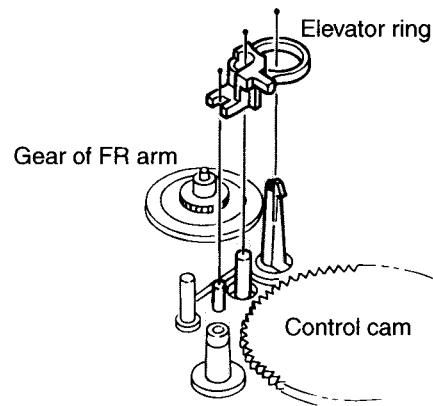


Fig.15

When attaching the control cam

While pressing the FWD/REV arm in the direction of the arrow, pull the head to the front.

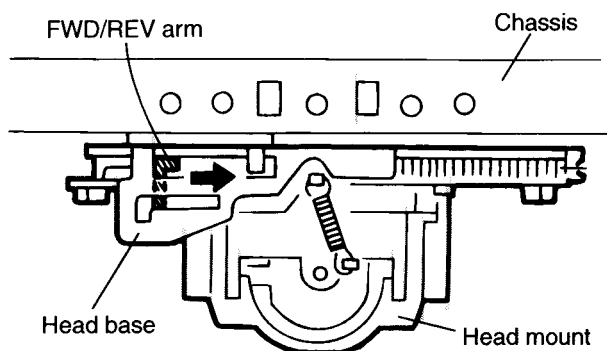


Fig.16

■ How to assemble (See Fig.14~19)

1. Move the FWD/REV arm in the direction of the arrow.
2. In step 1, pull the head base forward.
3. In step 2, after inserting the cam into the shaft, move the head base and FWD/REV arm slightly until the cam is fully inserted and it clicks to inform when it has been locked.
4. Rotate the cam counterclockwise to check if the cam rotates smoothly and the spring clicks according to the forward/backward movement of the head base.
5. After checking the rotation of the cam, rotate the cam until the notch section comes to the right so that the FWD/REV arm assembly can be attached.
6. Attach the FWD/REV arm assembly while observing the positioning of:
 - the hole and stud.
 - the cam hole and arm edge
 shown in the figure 14.
 After attachment, move the FWD/REV arm in the direction of the arrow to check if it moves back to the original position.
7. Attach the elevator ring.
8. Attach the trigger arm.
 After attachment, move the trigger arm in the direction of the arrow to check if it moves back to the original position.

After performing the procedure shown above, the studs under the control cam as shown.

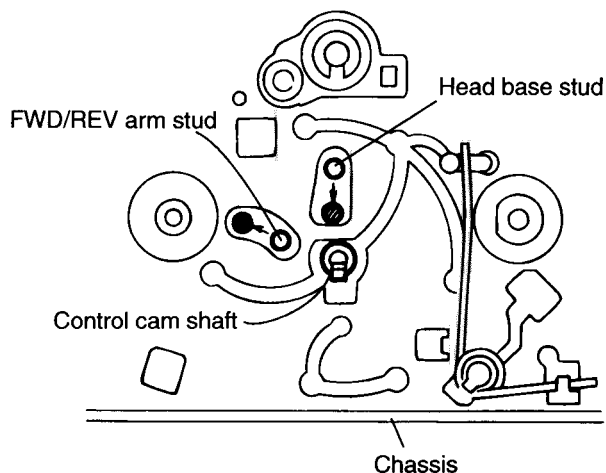
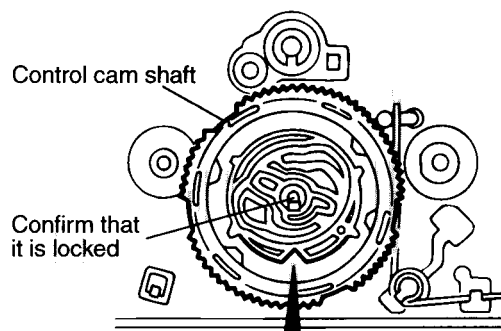


Fig.17

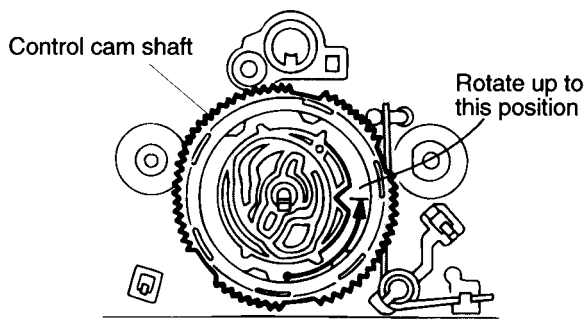
Working confirmation:

If the control cam rotates counterclockwise, the assembly was successful: if it does not rotate, it must be reassembled.



Fit the control cam its notch located as shown.
 (Engage with the gear of the control cam while moving the FWD/REV arm and head base slightly.)

Fig.18



Attach the FWD/REV arm with the control cam rotated up to the position shown.

Fig.19

Main Adjustment

■ Measurement Instruments Required for Adjustment

1. Low frequency oscillator, 2. Attenuator impedance : 600 Ω
This oscillator should have a capacity to output 0dBs to 600 Ω at an oscillation frequency of 50Hz-20kHz.
3. Electronic voltmeter, 4. Frequency counter
5. Wow flutter meter
6. Standard signal generator
: Model MSG-2580 or equivalent model.
Generalized signal source.
7. Pilot-Tone stereo signal generator
: Model MSG-211FS II or equivalent model.
Generalized signal source.
8. Weighting : IHF(200-15000Hz), BPF,LPF,HPF, NULL
JISA, JISB, DIN, 45405, FLAT
9. Test tape
VTT712 : For Tape speed and wow flutter (3kHz)
VTT724 : For Reference level (1kHz)
TMT7036 : For Head angle(10kHz)
Because of frequency-mixed tape with 63,1k,10k and 14kHz(250nWb/m -24dB).
Use this tape together with a filter.
10. Blank tape
TAPE I : AC-225, TAPE II : AC-514
11. Torque gauge : For play and back tension
Foward ; TW2111A, Reverse ; TW2121A
Fast Foward and Rewind ; TW2231A
12. Test disc
: CTS-1000(12cm),GRG-1211(8cm)
13. Jitter meter

■ Measurement Conditions

Power supply voltage
: AC110/127V/230V(50/60Hz) ---UB/US/UT/UP/UX/U
: AC120V (60Hz) ---C/J
:AC230V (50Hz) ---A
Reference output
: Speaker ; 16.1V/6 ohm
: Headphone ; 0.245V/32 Ω
Reference frequency and Input level: 1kHz
Measurement output terminal : Speaker out

Radio input signal

AM modulation frequency : 400Hz
Modulation factor : 30%
FM modulation frequency : 400Hz
Frequency displacement : 22.5kHz

Standard measurement positions of volume

Sound mode : Flat position
Super -Bass : Off
Up and Down adjustment of volume : Vol.32

Precautions for Measurement

1. Apply 30pF and 33k Ω to the IF sweeper output side and 0.082 μ F and 100k Ω in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated.
In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly.
7. In the case of BTL connection amplifier, the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.

Head amp&Mecha control board
ENC-141-2

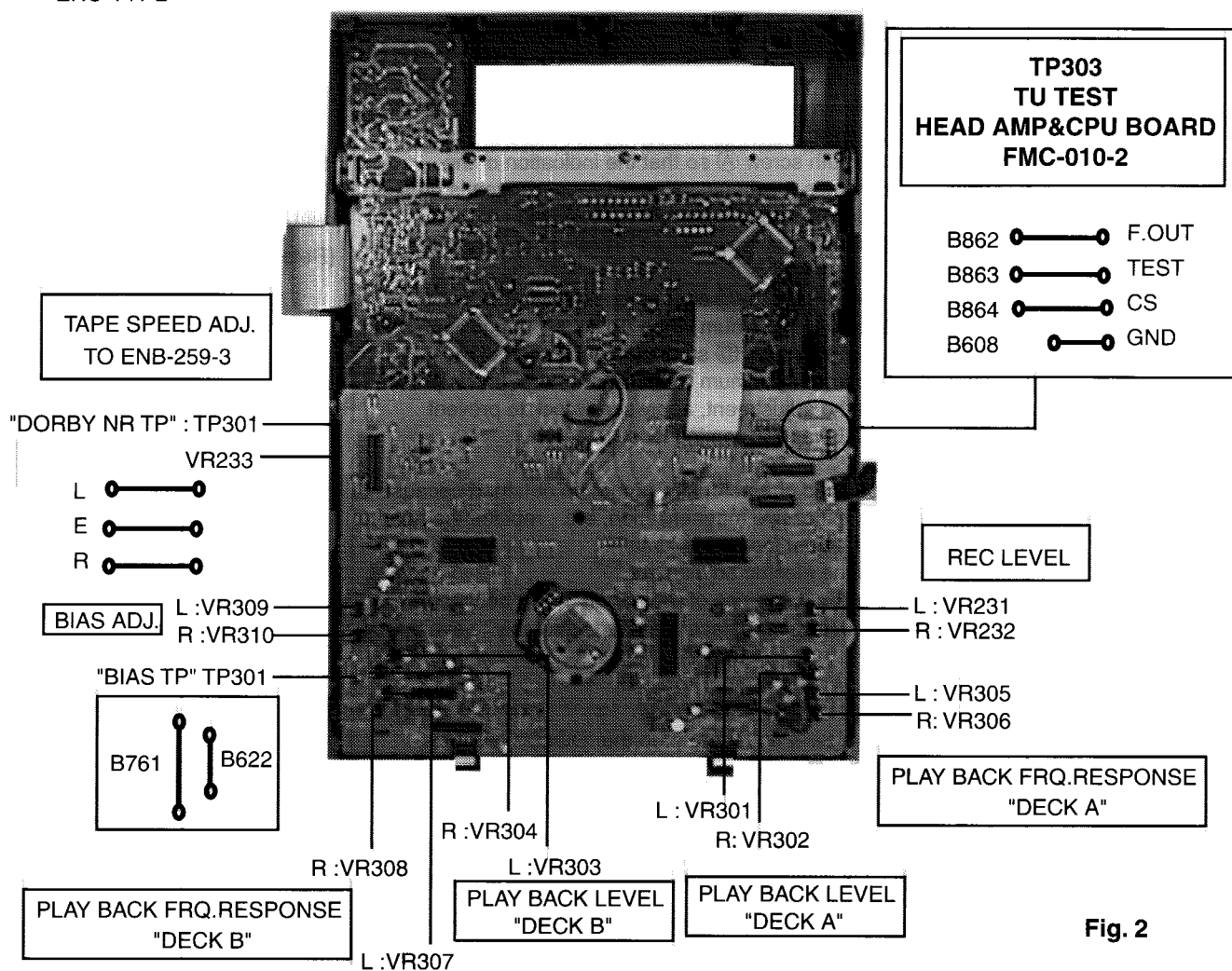


Fig. 2

Cassette mechanism

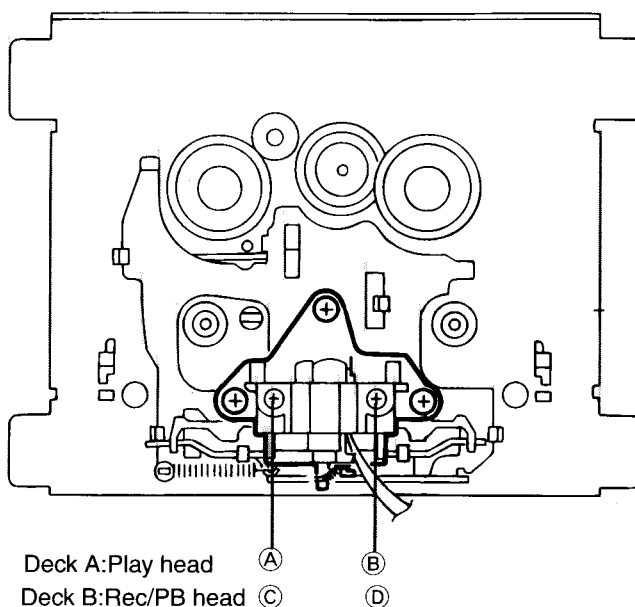


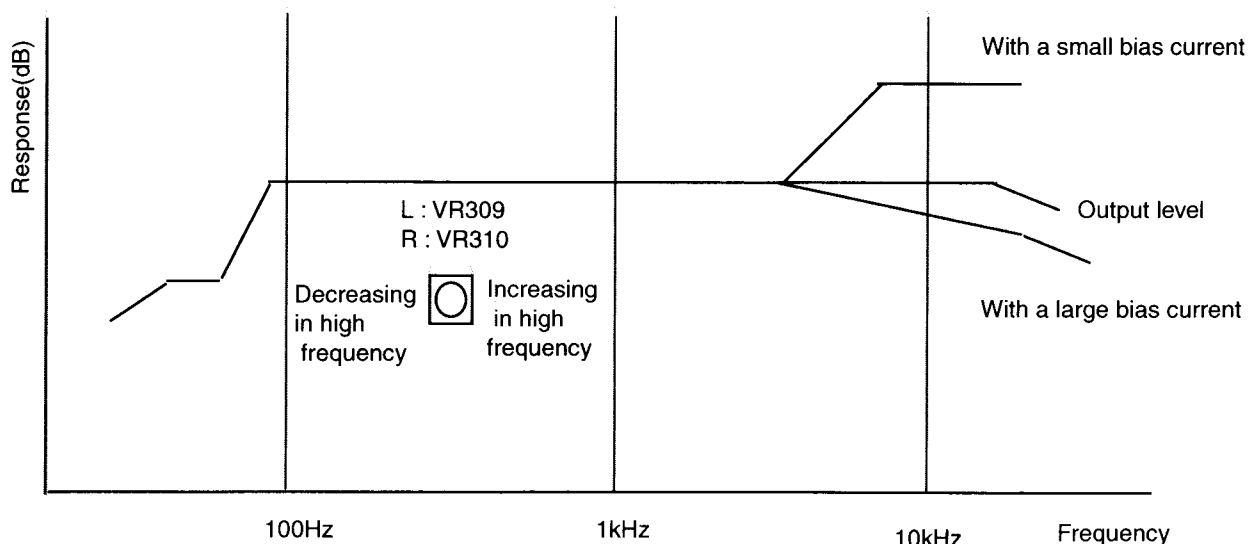
Fig. 3

Mechanism Adjustment Section

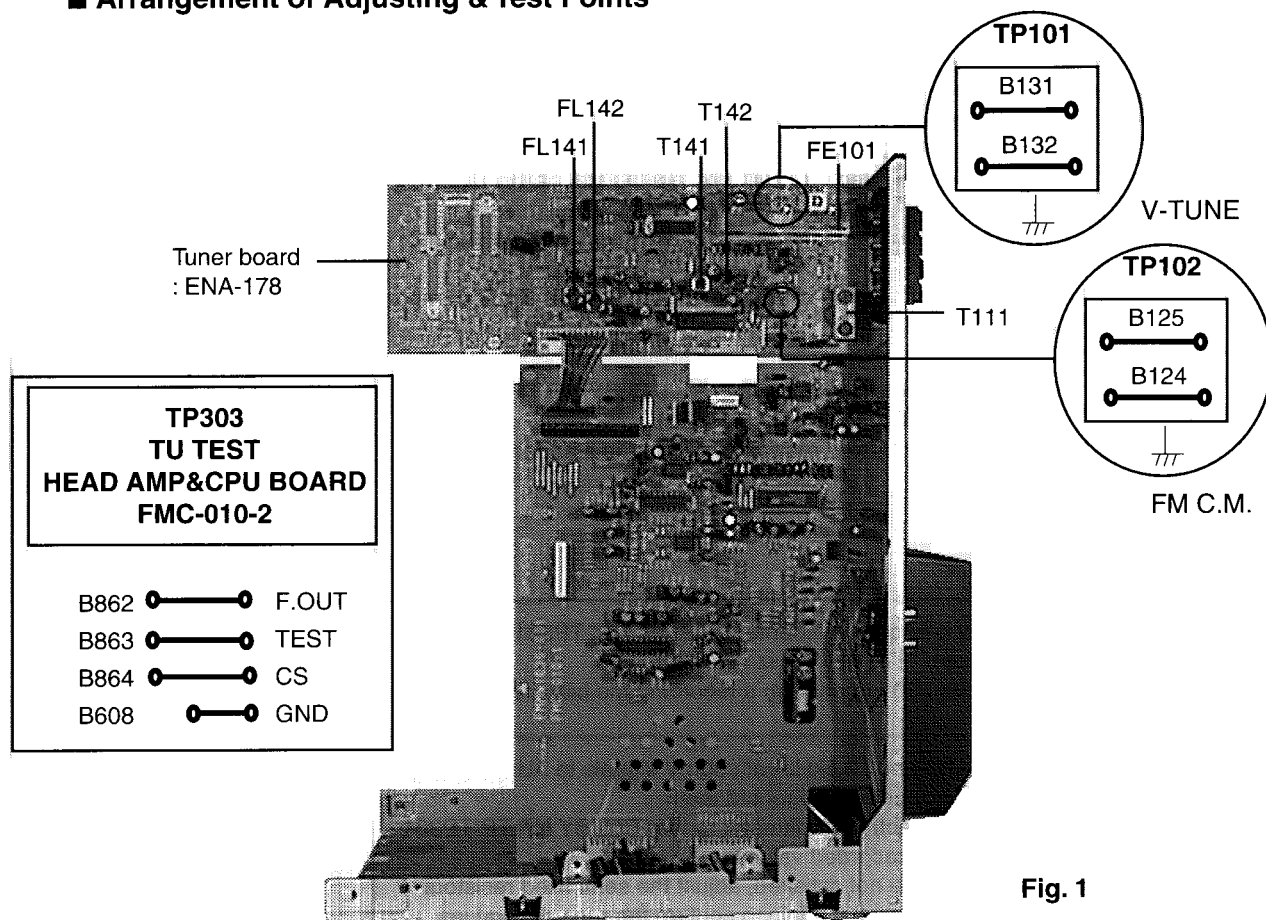
Item	Adjusting & Confirmation Methods	Adjust	Std. Value
1. Head azimuth	"DeckA" 1. Connect an electronic voltmeter to "DOLBY NR TP301 to playback VTT703L (10kHz). 2. Adjust the azimuth screw ① so that the indication of the voltmeter becomes maximum when "PLAY ►" button is pressed. 3. Adjust the azimuth screw ② so that the indication of the voltmeter becomes maximum when "PLAY ◄" button is pressed. "DeckB" 4. Adjust the azimuth screw ③ so that the indication of the voltmeter becomes maximum when "PLAY ►" button is pressed. 5. Adjust the azimuth screw ④ so that the indication of the voltmeter becomes maximum when "PLAY ◄" button is pressed. 6. After marking the adjustment, apply screw lock to prevent screws ①, ②, ③ and ④ coming loose. Note 1. When the specified characteristic cannot be obtained because of head wear, excessive magnetization, etc., replace the head assembly and adjust the head azimuth. Also, perform the electric adjustment. 2. When there is the difference of more than 3-4dB between left and right output levels, replace the head assembly to avoid complaints.	Screws ①, ②, ③ and ④ for head azimuth (Refer to Fig.1)	Maximum
2. Wow & Flutter	1. Connect the wow & flutter meter to the "DOLBY NR TP301 and playback VTT712. 2. It is reading should be within 0.25%(WRMS). Note As complaint may occur if the wow&flutter fluctuates by 0.1% even though it is allowed in the standard, repairing is required.	-	Less than 0.25%(WRMS)
3. Playback torque	Measure the torque in the playback mode by the torque meter. Note When the standard torque cannot be obtained, replace the FR arm assembly or motor.	-	240-720N-cm
4. Fast forward torque	Measure the torque in the fast forward mode by the torque meter. Note When the standard torque cannot be obtained, replace the FR arm assembly or motor.	-	700-1750N-cm
5. Rewind torque	Measure the torque in the rewind mode by the torque meter. Note When the standard torque cannot be obtained, replace the FR arm assembly or motor.	-	700-1750N-cm
6. Tape speed	1. Connect the frequency counter to the "DOLBY NR TP301 and playback VTT712. 2. Adjust the semi-fixed resistor VR233 on FMC-010-3. Note Connect a wow&flutter meter with a built-in frequency counter to the speaker terminals.	VR233	3000Hz±10Hz

■ Electrical Adjustment Section

Item	Adjusting & Confirmation Methods	Adjust	Std. Value
1. Playback level	1. Connect an electronic voltmeter to "DOLBY NR TP" TP301 to playback VTT724(1kHz : -4dBs). 2. Adjust the semi-fixed resistor to obtain the standard value. Note The playback level values when the head is replaced so should be adjusted. Use an electronic voltmeter with an impedance of 100k Ω or more.	"Deck A" L : VR301 R : VR302 "Deck B" L : VR303 R : VR304	488mV(-4dBs)
2. Playback frequency response	1. Connect an electronic voltmeter to "DOLBY NR TP" TP301 to playback VTT703L (10kHz : -10dBs). 2. Adjust the semi-fixed resistor to obtain the standard value.	"Deck A" L : VR305 R : VR306 "Deck B" L : VR307 R : VR308	245mV(-10dBs)
3. Recording bias frequency	1. Connect a frequency counter to "BIAS TP " TP301 to playback VTT703L (10kHz : -10dBs). 2. Adjust the L301 to perform a recording the bias frequency.	L301	105kHz+5kHz 105kHz~10kHz
4. Record/Play frequency response (Bias current)	1. Supply 1kHz and 12.5kHz with 30mV signals to AUX IN terminals respectively to record them. 2. Connect an electronic voltmeter to the "DOLBY NR TP"TP301 to confirm the recorded values. 3. If the values are not satisfied, adjust the semi-fixed resistors and record the signal again to confirm the recorded values. Note 1. The recording and playback frequency response of a cassette deck are adjusted by adjusting the bias. 2. Perform the adjustment with normal tape "AC-225"and confirm that the values are within the range for metal tape"AC-712".	L : VR309 R : VR310	0dB $\pm$ 2dB with 1kHz as the standard.



■ Arrangement of Adjusting & Test Points



■ Tuner Section

Item	Adjusting & Confirmation Methods	Adjust	Std. Value
1. Clock Confirmation	1. After connecting B863 and B864 with some wire as shown in the figure below, connect the AC power cord into an AC outlet. 2. Confirm that the display is off and remove the wire. 3. Connect a frequency counter to TP303, B862 and B808. 4. Confirm the frequency $5000 \pm 0.29\text{Hz}$.		
2. Tuning Voltage	Confirm the voltage at TP101 is within the standard values shown in the table below. If the voltages are not satisfied, replace T111 for MW or FE101 for FM.		
3. FM Center meter	Receive a broadcast which understanding the frequency by using the function of "MANUAL SEARCH". Adjust T141 (Detector Coil) so that the voltage at TP102 becomes $0 \pm 1.5\text{mV}$.		

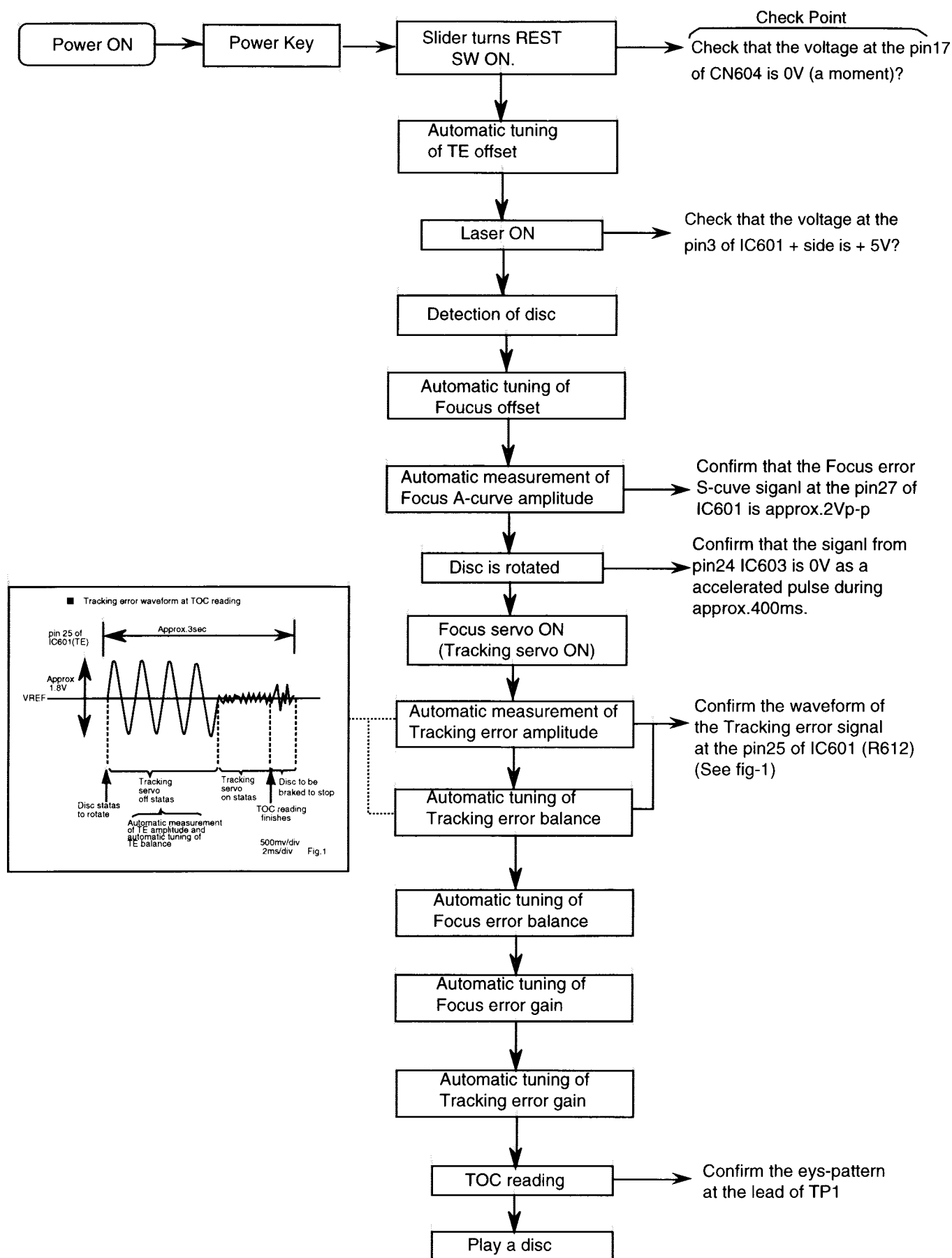
Tuner Voltage

Confirm the voltages at TP101 is within the standard values shown in the table below.

Area	Range				
	LW(kHz)	MW(kHz)	FM(kHz)	FM TU.VOL	
				87.5MHz	108.0MHz
B/E/EN	144~288	522~1629	87.5~108.0	1.6±1.0	8.0±2.0
J/C	-	530~1710	87.5~108.0	1.6±1.0	8.0±2.0
Universal type(AM Channel space 9kHz)	-	531~1602	87.5~108.0	1.6±1.0	8.0±2.0
Universal type(AM Channel space 10kHz)	-	530~1600	87.5~108.0	1.6±1.0	8.0±2.0
EE	144~288	522~1629	65.0~74.0 87.5~108.0	65.0MHz >1.3	108.0MHz <11

Area	Frequency(MW :kHz)							Frequency(LW:kHz)	
	522	530	531	1600	1602	1629	1710	144	288
A/B/E/EN	>0.7	-	-	-	-	<8.3	-	0.5<1.0	5.0<7.5
J/C	-	>0.8	-	-	-	-	<8.8	-	-
Universal(Channel space 9kHz)	-	-	>0.8	-	<7.9	-	-	-	-
Universal(Channel space 10kHz)	-	>0.8	-	<7.9	-	-	-	-	-

Flow of Functional Operation Until TOC Read



Maintenance of Laser Pickup

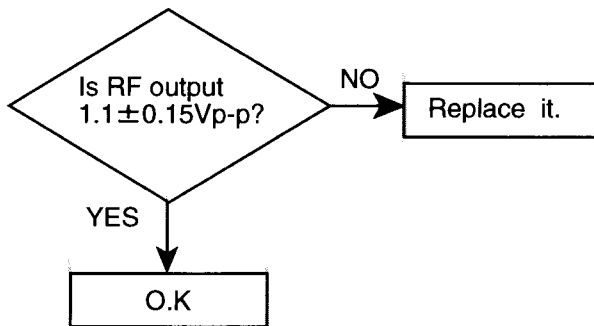
(1) Cleaning the pick up lens

Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode (Fig.1)

When the life of the laser diode has expired, the following symptoms will appear.

- (1) The level of RF output (EFM output: amplitude of eye pattern) will be low.



(Fig.1)

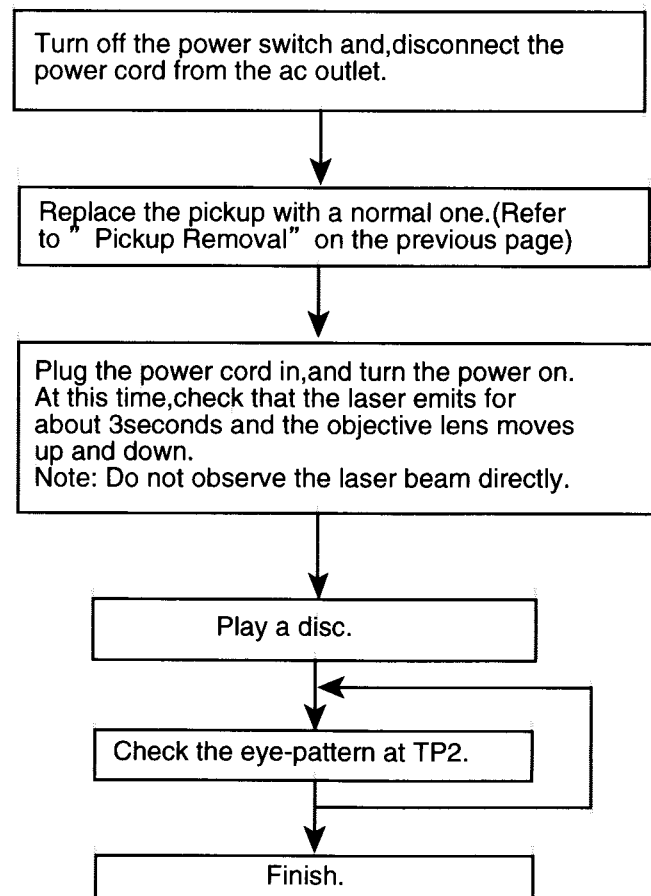
(3) Semi-fixed resistor on the APC PC board

The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.

If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced.

If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

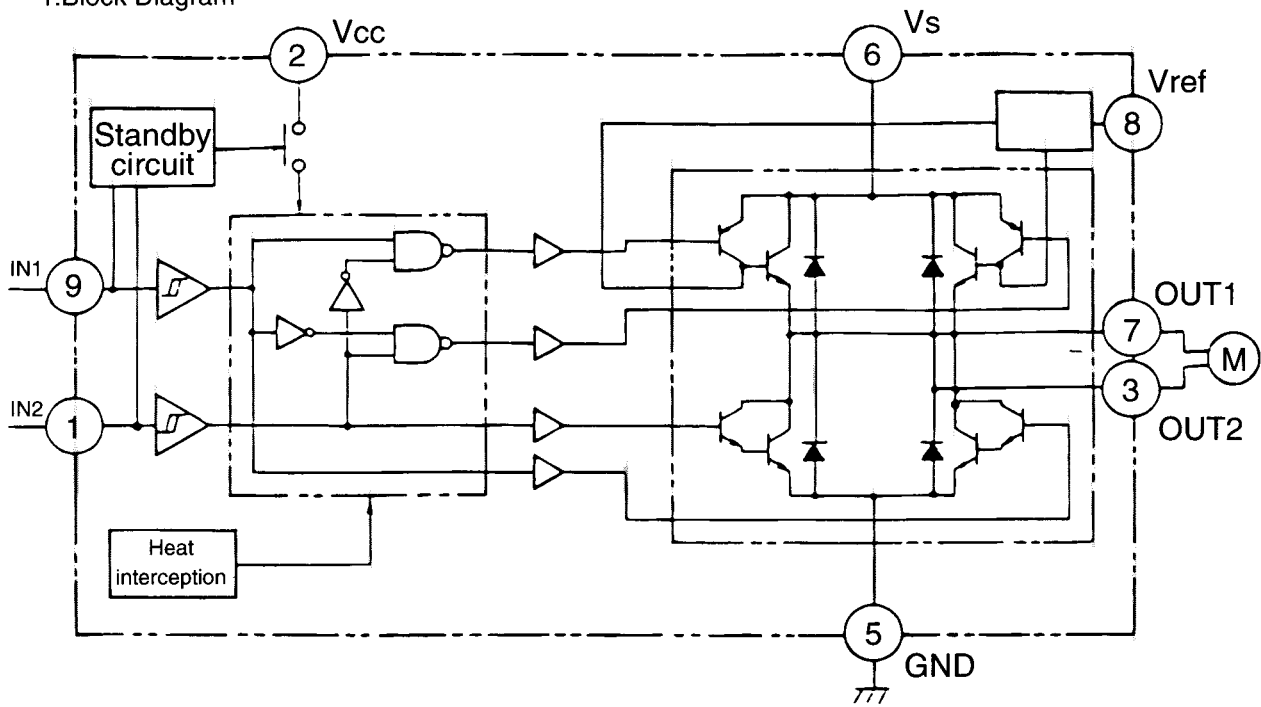
Replacement of Laser Pickup



Description of Main ICs

■TA8409S(IC802.803):CD Changer Motor Driver

1.Block Diagram

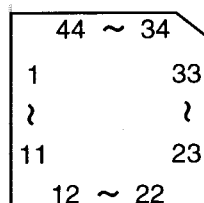


2.Function

INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	MOTOR
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

■UPD65612GB-177(IC801):CD Changer Control Micon

1.Trminal Layout



2.Pin Function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	NC	-	Non connect	24	1SSW	I	Switch input signal to TRAY 1
2	NC	-	Non connect	25	NC	-	Non connect
3	MSPOSI	-	Non connect	26	CAM0	I	Switch input signal for LCAM
4	OS1I	I	Oscillation input terminal	27	CAM1	I	Switch input signal for LCAM
5	OS1O	O	Oscillation output terminal	28	CAM2	I	Switch input signal for LCAM
6	OS2I	I	Oscillation input terminal	29	CAM3	I	Switch input signal for LCAM
7	OS2O	O	Oscillation output terminal	30	CAM4	I	Switch input signal for RCAM
8	NC	-	Non connect	31	CAM5	I	Switch input signal for RCAM
9	C12IN	I	Connect to C12 OUT terminal	32	CAM6	I	Switch input signal for RCAM
10	C12OUT	O	Connect to C12 IN terminal	33	CAM7	I	Switch input signal for RCAM
11	RESET	I	Reset signal input	34	FIT	O	Connect to C50
12	REQB	O	Mecha.data.request output	35	C50	I	Connect to FIT
13	DATA	I/O	Control.status.data. I/O	36	LMUP	O	Motor control signal for L
14	STCH	I	Strobe signal input	37	LMDWN	O	Motor control signal for L
15	CKS	I	Clock signal input	38	C25	-	Non connect
16	SELECT	-	Connect to ground	39	VDD	-	Power supply
17	GND	-	Connect to ground	40	C100	-	Non connect
18	CK	-	Connect to ground	41	RMUP	O	Motor control signal for R
19	1MSW	I	Switch input signal to TRAY 1	42	RMDWN	O	Motor control signal for R
20	2MSW	I	Switch input signal to TRAY 2	43	NC	-	Non connect
21	3MSW	I	Switch input signal to TRAY 3	44	NC	-	Non connect
22	3SSW	I	Switch input signal to TRAY 3				
23	2SSW	I	Switch input signal to TRAY 2				

3. Description

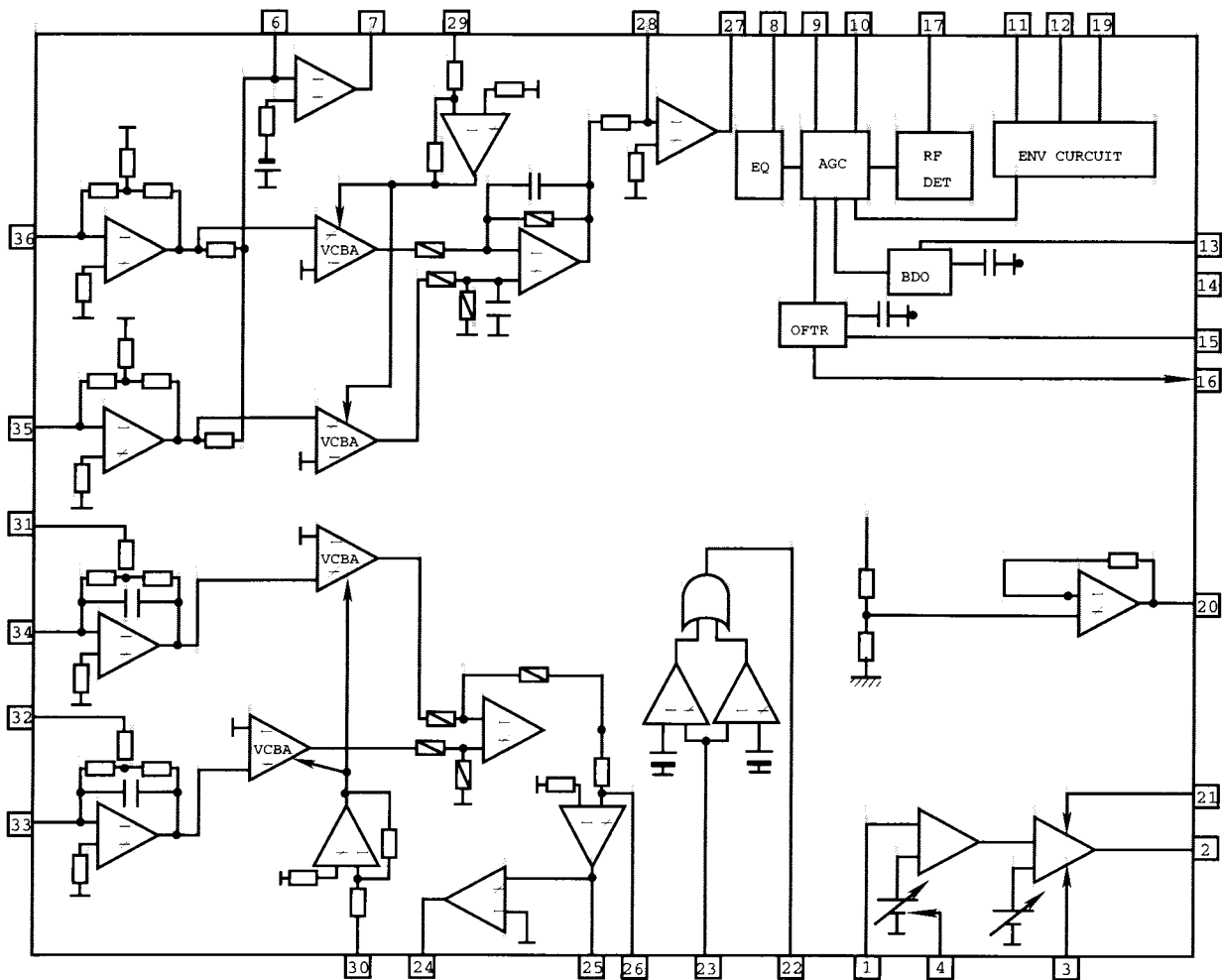
Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output(H:shunt)
2	LRCK	O	Not used	42	PLAY	—	Not used
3	SRDATA	O	Not used	43	WVEL	—	Not used
4	DVDD1	—	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	—	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	μ com command clock signal input (Data is latched at signal's rising point)	47	DSLIF	I/O	Loop filter pin for DSL
8	MDATA	I	μ com command data input	48	PLLIF	I/O	Loop filter pin for PLL
9	MLD	I	μ com command load signal input	49	VCOF	—	Not used
10	SENSE	O	Sence signal output	50	AVDD2	—	Power supply(Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	—	Connected to GND(Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	—	Not used
13	BLKCK	O	sub-code·block·clock signal output	53	PCK	—	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	—	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	—	Not used
16	DMUTE	—	Connected to GND	56	SBCK	—	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	—	Connected to GND(for X'tal cscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	—	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	—	Not used	60	VDD	—	Power supply(for X'tal cscillationcircuit)
21	TRV	O	Traverse enforced output	61	BYTCK	—	Not used
22	TVD	O	Traverse drive output	62	CLDCK	—	Not used
23	PC	—	Not used	63	FLAG	—	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	—	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	—	Not used
26	KICK	O	Kick pulse output	66	CLVS	—	Not used
27	TRD	O	Tracking drive output	67	CRC	—	Not used
28	FOD	O	Focus drive output	68	DEMPH		Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	—	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	—	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	—	pull up
32	FE	I	Focus error signal input(Analog input)	72	AVDD1	—	Power supply(Digital)
33	TE	I	Tracking error signal input(Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input(Analog input)	74	AVSS1	—	Connected to GND
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input(H:off track)	76	RSEL	—	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	—	Connected to GND
38	RFDET	I	RF detect signal input(L:detect)	78	PSEL	—	Connected to GND
39	BDO	I	BDO input pin(L:detect)	79	MSEL	—	Connected to GND
40	LDON	O	Laser ON signal output(H:on)	80	SSEL	—	Pull up

■ AN8806SB(IC601):RF&Servo AMP

1. Terminal Layout

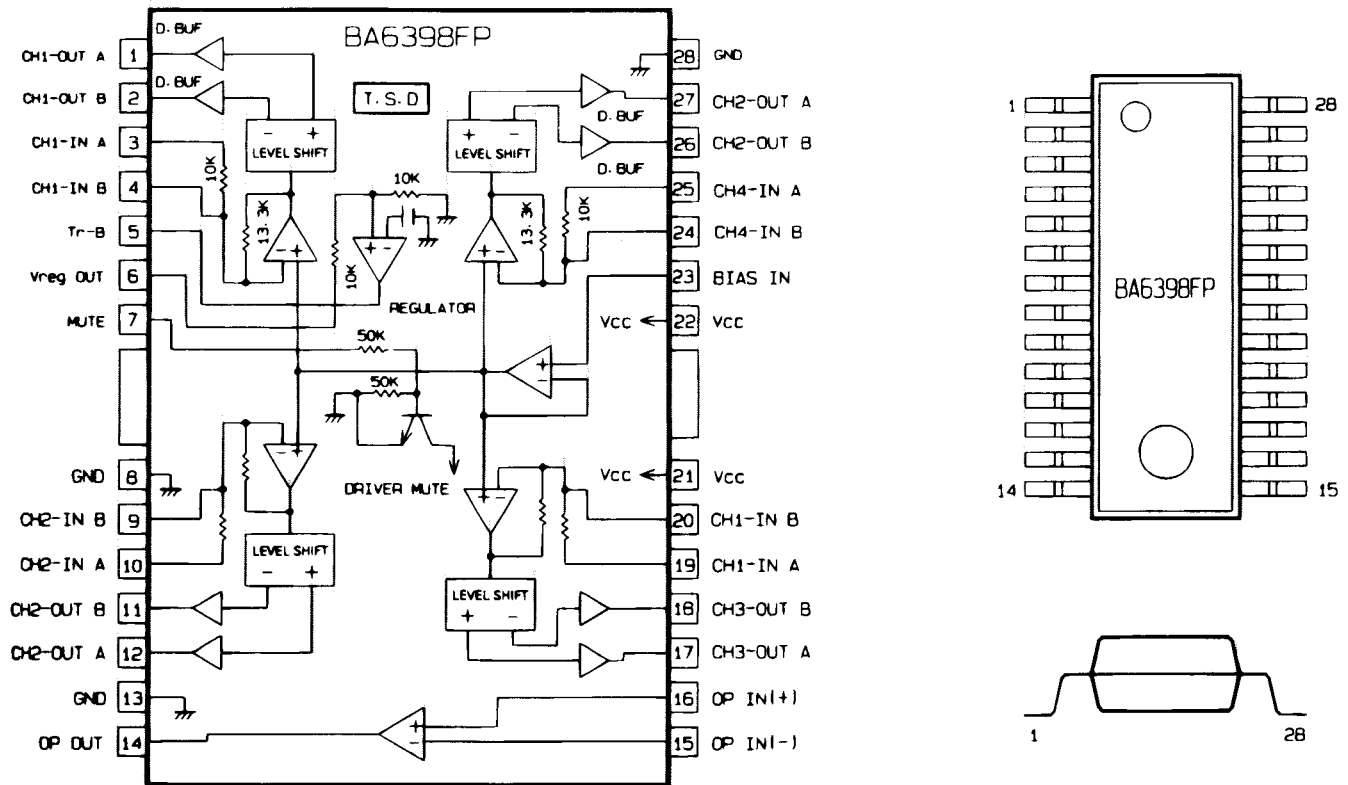
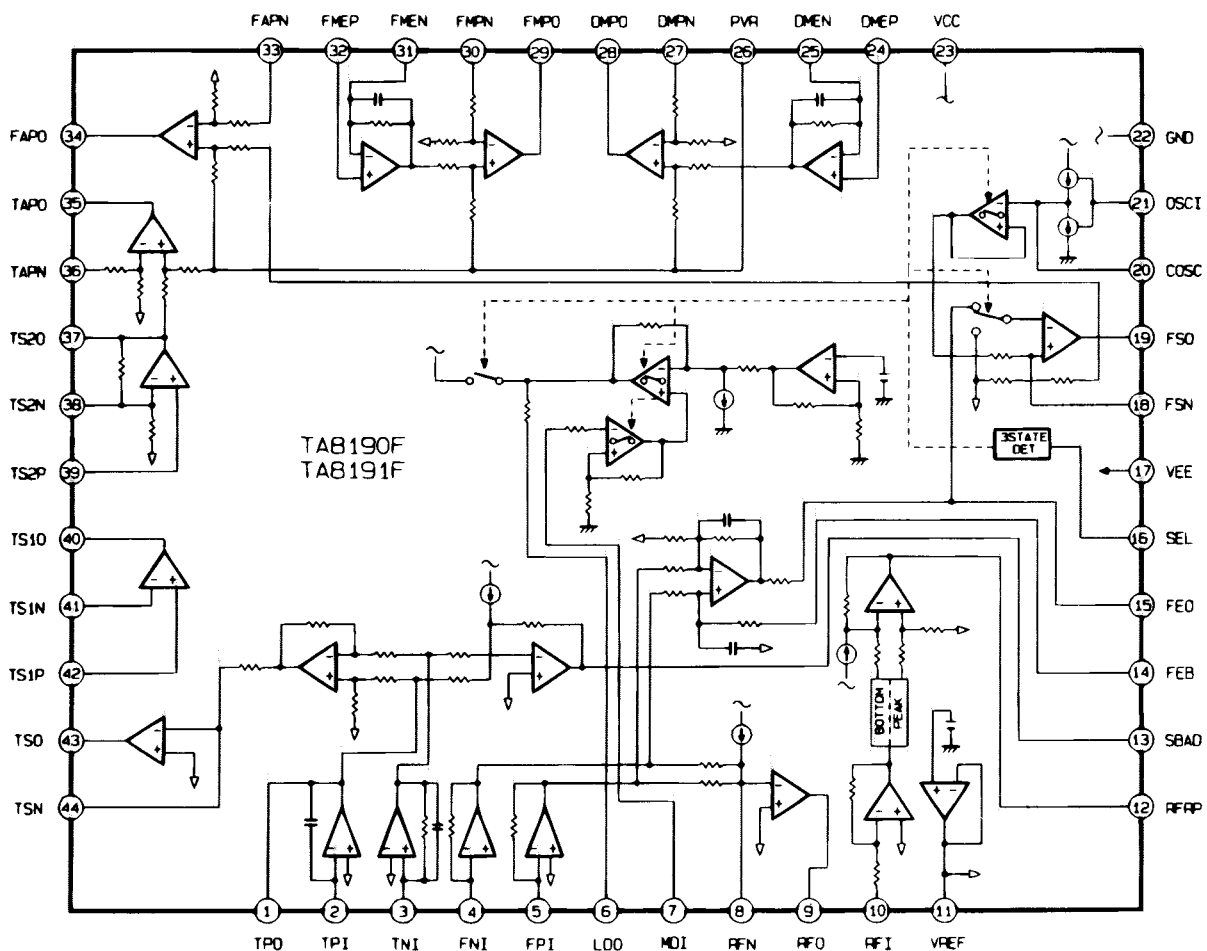
PD	1	36	PDAC
LD	2	35	PDBD
LDON	3	34	PDF
LDP	4	33	PDE
VCC	5	32	PDER
RF-	6	31	PDFR
RF OUT	7	30	TBAL
RF IN	8	29	FBAL
C.AGC	9	28	EF-
ARF	10	27	EF OUT
C.ENV	11	26	TE-
C.EA	12	25	TE OUT
CS BDO	13	24	CROSS
BDO	14	23	TE BPF
CS BRT	15	22	VDET
OFTR	16	21	LD OFF
/NRFDET	17	20	VREF
GND	18	19	ENV

2. Block Diagram



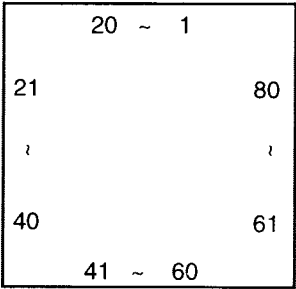
3. Functions

Pin No.	Symbol	I/O	Functions and operations
1	PD	I	APC amp input terminal
2	LD	O	APC amp output terminal
3	LD ON	I	APC ON/OFF control terminal
4	LDP	--	Connect to ground
5	VCC	--	Power supply
6	RF-	I	Inverse input pin for RF amp
7	RF OUT	O	RFamp output
8	RF IN	I	RF input
9	C.AGC	I/O	Connecting pin of AGC loop filter
10	ARF	O	RF output
11	C.ENV	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
12	C.EA	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
13	CS BDO	I/O	A capacitor is connected to detect the lower envelope of RF signal
14	BDO	O	BDO output pin
15	CS BRT	I/O	A capacitor is connected to detect the lower envelope of RF signal
16	OFTR	O	Of-track status signal output
17	/NRFDDET	O	RF detection signal output
18	GND	--	Ground
19	ENV	O	Envelope output
20	VREF	O	Reference voltage output
21	LD OFF	--	Connect to ground
22	VDET	O	Vibration detection signal output
23	TE BPF	I	Input pin of tracking error through BPF
24	CROSS	O	Tracking error cross output
25	TE OUT	O	Tracking error signal output
26	TE-	I	Inverse input pin for tracking error amp
27	FE OUT	O	Output pin of focus error
28	FE-	I	Inverse input pin for focus error amp
29	FBAL	I	Focus balance control
30	TBAL	I	Tracking balance control
31	PDFR	I/O	F I-V amp gain control
32	PDER	I/O	E I-V amp gain control
33	PDF	I	I-V amp input
34	PDE	I	I-V amp input
35	PD BD	I	I-V amp input
36	PD AC	I	I-V amp input

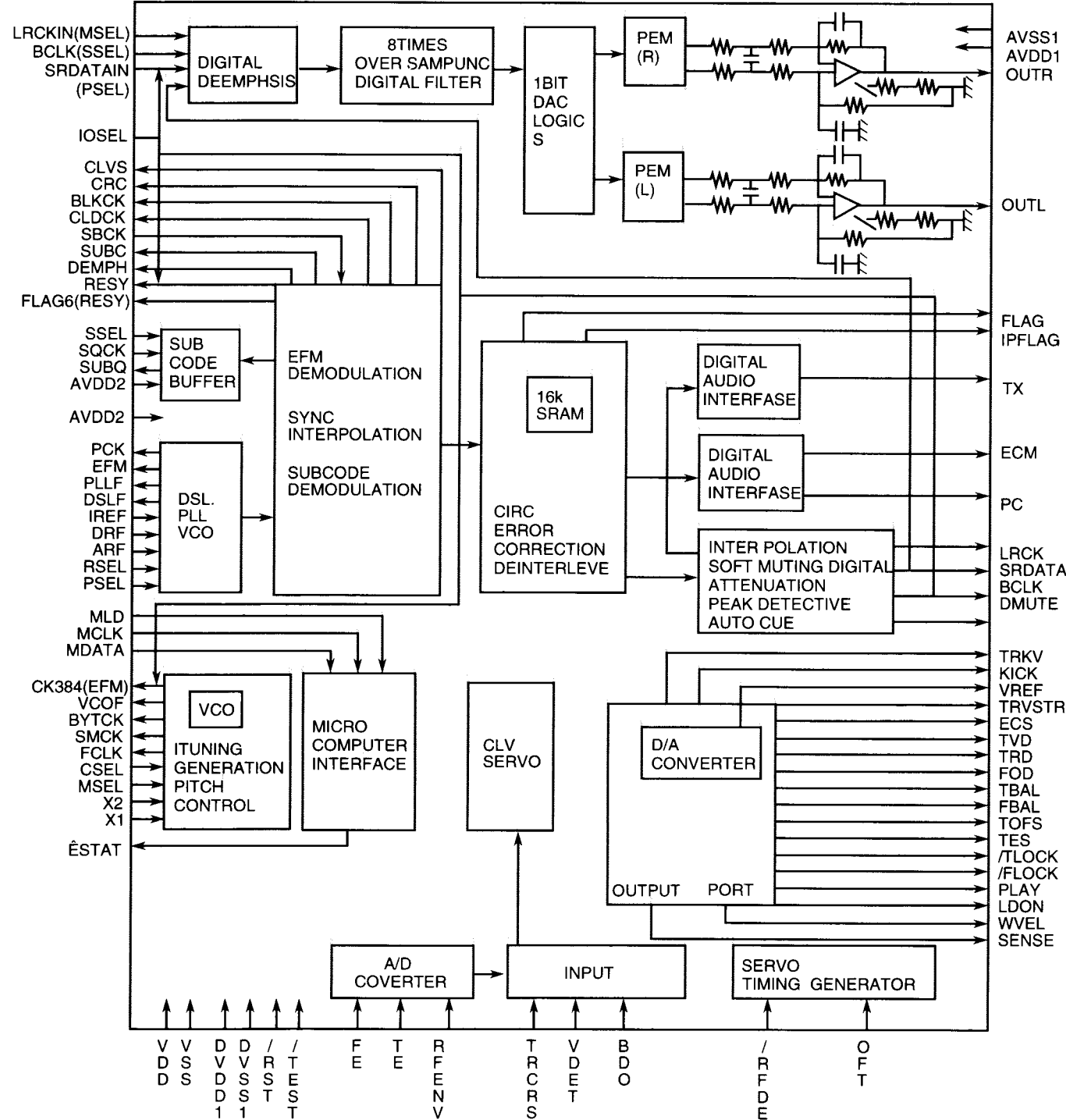
IC502 : BA6398FP (POWER DRIVER)**IC501 : TA8191F (FOCUS TRACKING SERVO)**

■ MN35510(IC651):DIGITAL SERVO&DIGITAL SIGNAL PROCESSOR

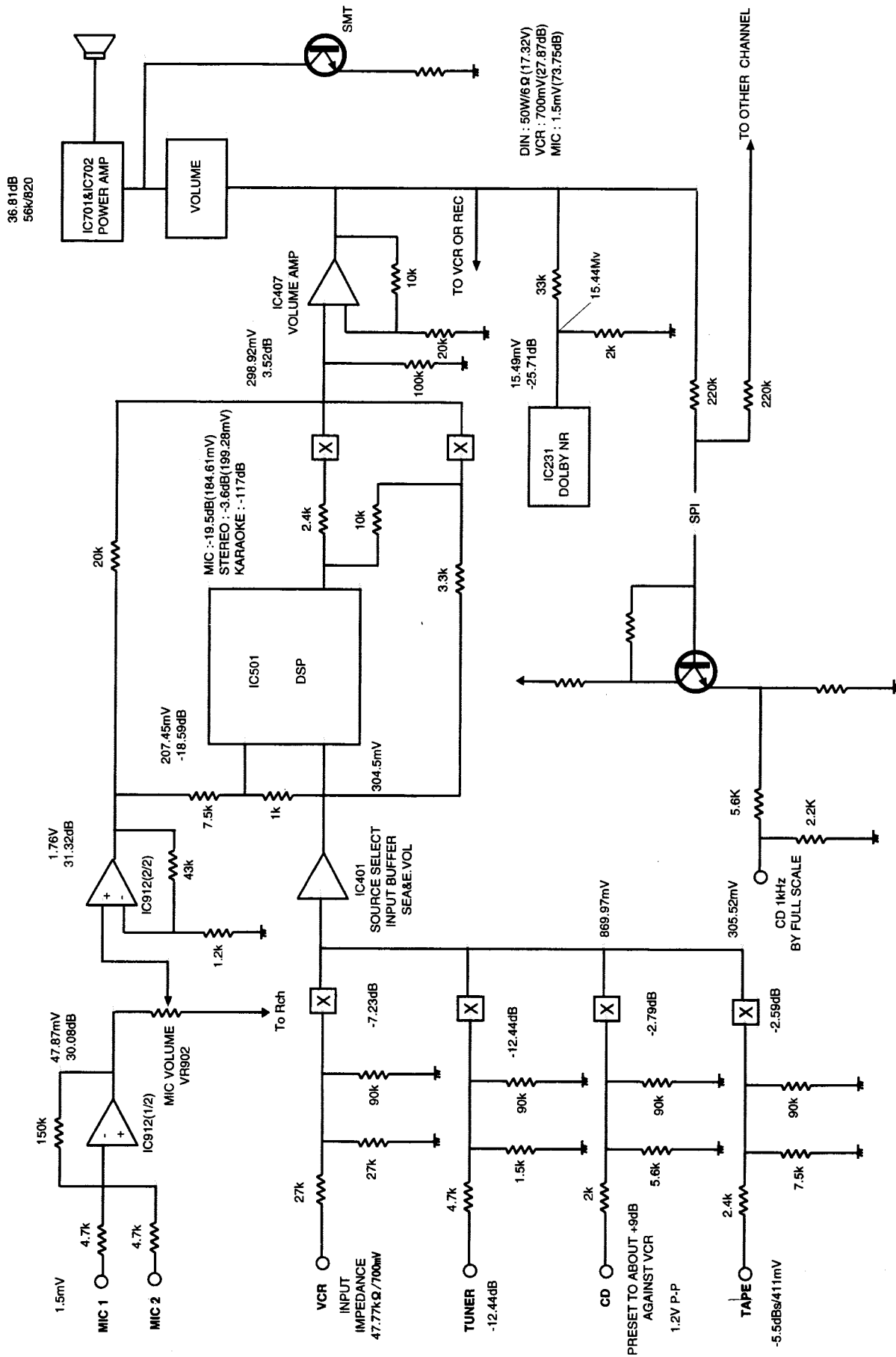
1. Terminal Layout



2.Block Diagram



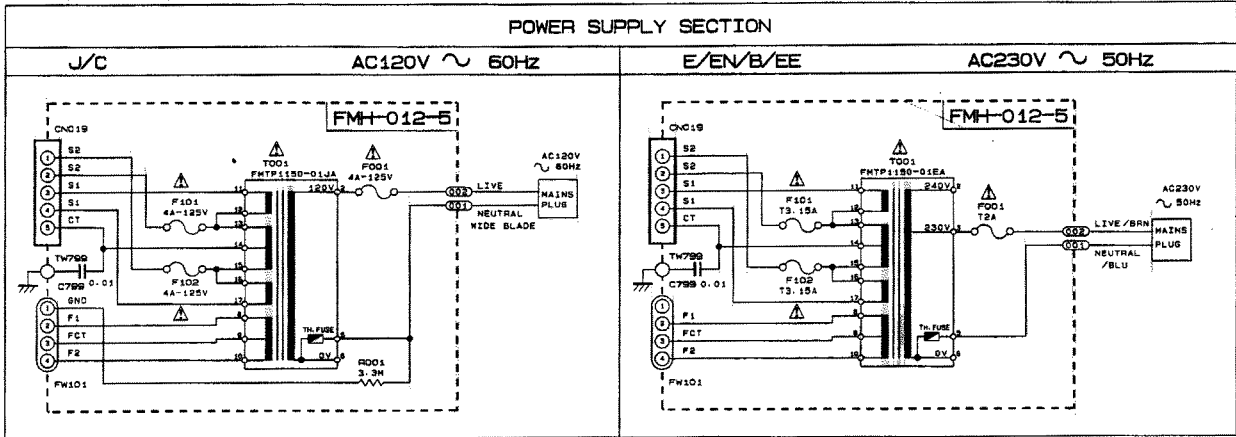
Block Diagrams



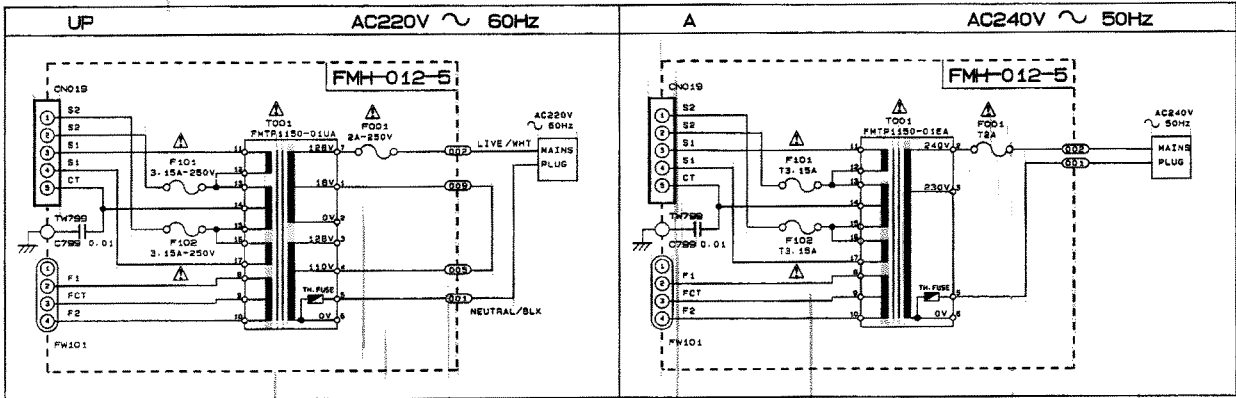
Standard Schematic Diagrams

Power Primary Section

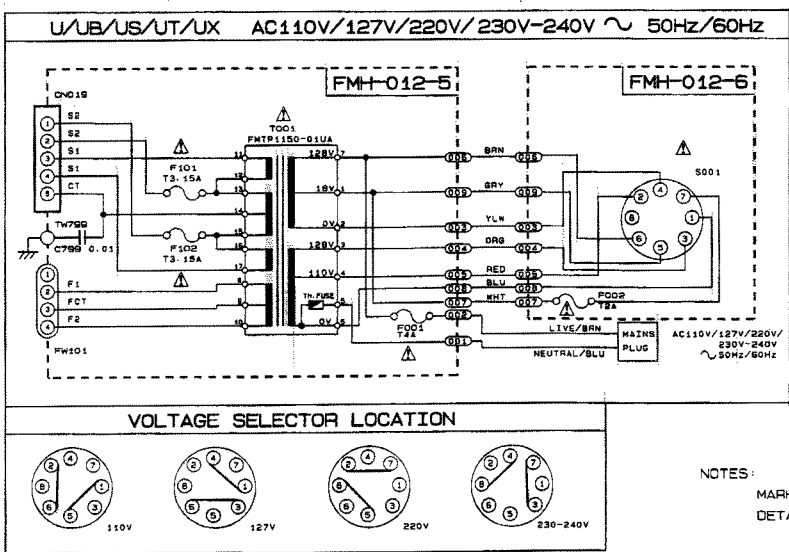
Block A



Block B



Block C



VERSION CODES

- J : U. S. A.
- C : CANADA
- EN : NORDIC COUNTRIES
- E : CONTINENTAL EUROPE
- EE : EASTERN EUROPE
- B : U. K.
- A : AUSTRALIA
- UP : KOREA
- UB : HONG KONG
- US : SINGAPORE
- UT : TAIWAN
- UX : SAUDI ARABIA
- U : UNIVERSAL EXCEPT ALL OF ABOVE

NOTES:
MARK(*) IS TO SHOW DEVIATION IN VERSIONS.
DETAILS ARE EXPLAINED NEAR THE MARK.

A

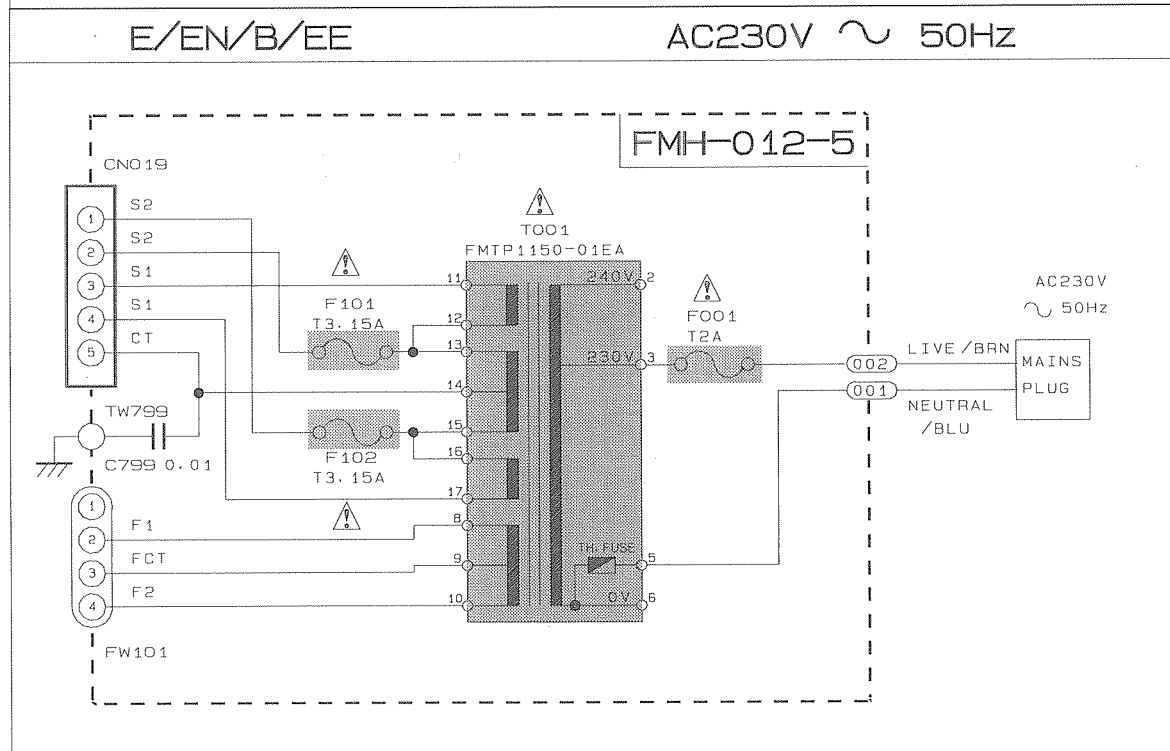
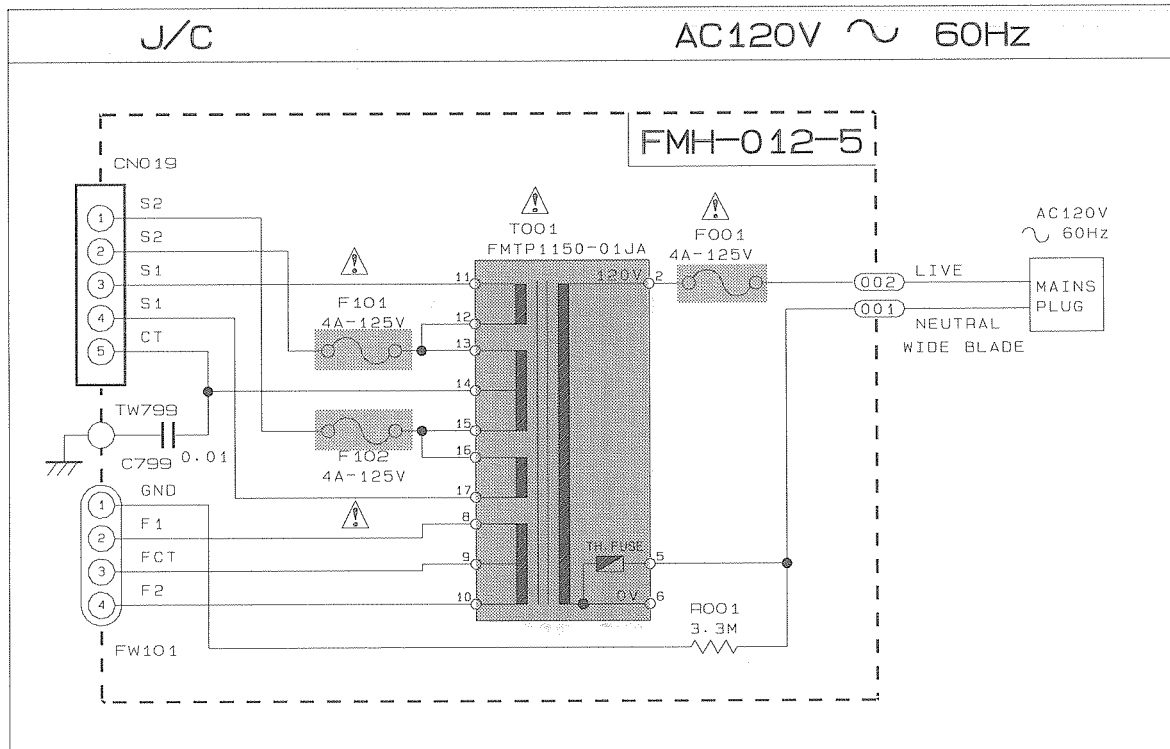
B

C

D

E

Block A



Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

A

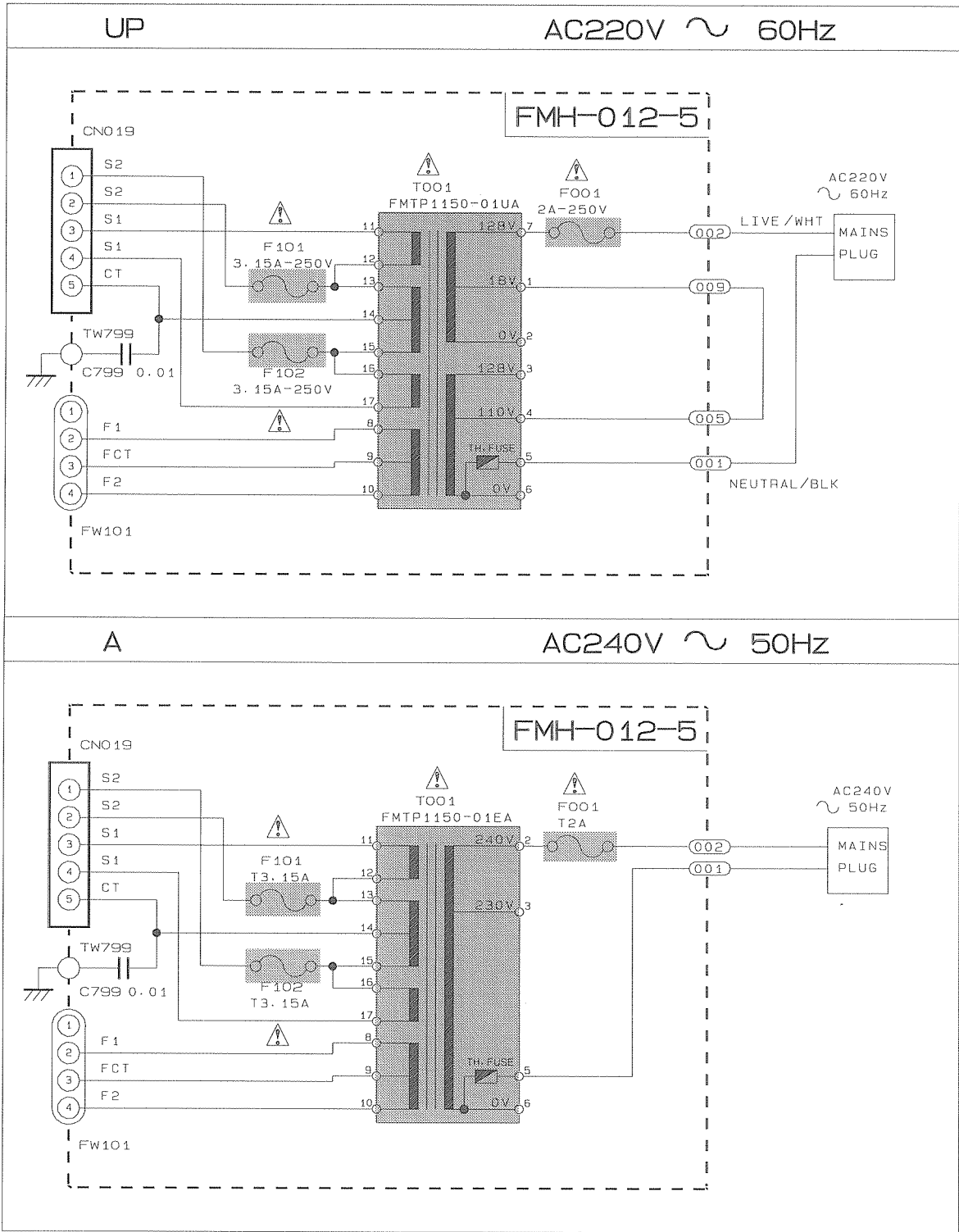
B

C

D

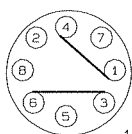
E

Block B

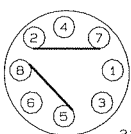


The diagram shows two modules, FMH-012-5 and FMH-012-6, connected to a central power distribution unit (FMT P1150-01UA).
FMH-012-5 (Left): Features a 5-pin connector (CN019) with pins 1-5 labeled S2, S2, S1, S1, and CT. It includes a fuse F101 (T3, 15A) and a fuse F102 (T3, 15A). A transformer TW799 is connected to a capacitor C799 (0.01). It also has a 4-pin connector (FW101) with pins 1-4 labeled F1, FCT, F2, and F2. A 7A fuse (FUSE) is located near the power distribution unit.
FMH-012-6 (Right): Features a 9-pin connector (S001) with pins 1-9 labeled 2, 4, 7, 8, 5, 6, 1, 3, and 9. It includes a fuse F002 (T2A) and a 4-pin connector (FOO1 T4A). A 7A fuse (FUSE) is located near the power distribution unit.
Power Distribution Unit (Center): Labeled FMT P1150-01UA, it has 17 pins. Pins 11-16 are labeled 120V, 120V, 120V, 120V, 120V, and 120V. Pins 17-18 are labeled 110V and 110V. Pins 19-20 are labeled 0V and 0V. Pins 21-22 are labeled 120V and 120V. Pins 23-24 are labeled 110V and 110V. Pins 25-26 are labeled 0V and 0V. Pins 27-28 are labeled 120V and 120V. Pins 29-30 are labeled 110V and 110V. Pins 31-32 are labeled 0V and 0V. Pins 33-34 are labeled 120V and 120V. Pins 35-36 are labeled 110V and 110V. Pins 37-38 are labeled 0V and 0V. Pins 39-40 are labeled 120V and 120V. Pins 41-42 are labeled 110V and 110V. Pins 43-44 are labeled 0V and 0V. Pins 45-46 are labeled 120V and 120V. Pins 47-48 are labeled 110V and 110V. Pins 49-50 are labeled 0V and 0V. Pins 51-52 are labeled 120V and 120V. Pins 53-54 are labeled 110V and 110V. Pins 55-56 are labeled 0V and 0V. Pins 57-58 are labeled 120V and 120V. Pins 59-60 are labeled 110V and 110V. Pins 61-62 are labeled 0V and 0V. Pins 63-64 are labeled 120V and 120V. Pins 65-66 are labeled 110V and 110V. Pins 67-68 are labeled 0V and 0V. Pins 69-70 are labeled 120V and 120V. Pins 71-72 are labeled 110V and 110V. Pins 73-74 are labeled 0V and 0V. Pins 75-76 are labeled 120V and 120V. Pins 77-78 are labeled 110V and 110V. Pins 79-80 are labeled 0V and 0V. Pins 81-82 are labeled 120V and 120V. Pins 83-84 are labeled 110V and 110V. Pins 85-86 are labeled 0V and 0V. Pins 87-88 are labeled 120V and 120V. Pins 89-90 are labeled 110V and 110V. Pins 91-92 are labeled 0V and 0V. Pins 93-94 are labeled 120V and 120V. Pins 95-96 are labeled 110V and 110V. Pins 97-98 are labeled 0V and 0V. Pins 99-100 are labeled 120V and 120V. Pins 101-102 are labeled 110V and 110V. Pins 103-104 are labeled 0V and 0V. Pins 105-106 are labeled 120V and 120V. Pins 107-108 are labeled 110V and 110V. Pins 109-110 are labeled 0V and 0V. Pins 111-112 are labeled 120V and 120V. Pins 113-114 are labeled 110V and 110V. Pins 115-116 are labeled 0V and 0V. Pins 117-118 are labeled 120V and 120V. Pins 119-120 are labeled 110V and 110V. Pins 121-122 are labeled 0V and 0V. Pins 123-124 are labeled 120V and 120V. Pins 125-126 are labeled 110V and 110V. Pins 127-128 are labeled 0V and 0V. Pins 129-130 are labeled 120V and 120V. Pins 131-132 are labeled 110V and 110V. Pins 133-134 are labeled 0V and 0V. Pins 135-136 are labeled 120V and 120V. Pins 137-138 are labeled 110V and 110V. Pins 139-140 are labeled 0V and 0V. Pins 141-142 are labeled 120V and 120V. Pins 143-144 are labeled 110V and 110V. Pins 145-146 are labeled 0V and 0V. Pins 147-148 are labeled 120V and 120V. Pins 149-150 are labeled 110V and 110V. Pins 151-152 are labeled 0V and 0V. Pins 153-154 are labeled 120V and 120V. Pins 155-156 are labeled 110V and 110V. Pins 157-158 are labeled 0V and 0V. Pins 159-160 are labeled 120V and 120V. Pins 161-162 are labeled 110V and 110V. Pins 163-164 are labeled 0V and 0V. Pins 165-166 are labeled 120V and 120V. Pins 167-168 are labeled 110V and 110V. Pins 169-170 are labeled 0V and 0V. Pins 171-172 are labeled 120V and 120V. Pins 173-174 are labeled 110V and 110V. Pins 175-176 are labeled 0V and 0V. Pins 177-178 are labeled 120V and 120V. Pins 179-180 are labeled 110V and 110V. Pins 181-182 are labeled 0V and 0V. Pins 183-184 are labeled 120V and 120V. Pins 185-186 are labeled 110V and 110V. Pins 187-188 are labeled 0V and 0V. Pins 189-190 are labeled 120V and 120V. Pins 191-192 are labeled 110V and 110V. Pins 193-194 are labeled 0V and 0V. Pins 195-196 are labeled 120V and 120V. Pins 197-198 are labeled 110V and 110V. Pins 199-200 are labeled 0V and 0V. Pins 201-202 are labeled 120V and 120V. Pins 203-204 are labeled 110V and 110V. Pins 205-206 are labeled 0V and 0V. Pins 207-208 are labeled 120V and 120V. Pins 209-210 are labeled 110V and 110V. Pins 211-212 are labeled 0V and 0V. Pins 213-214 are labeled 120V and 120V. Pins 215-216 are labeled 110V and 110V. Pins 217-218 are labeled 0V and 0V. Pins 219-220 are labeled 120V and 120V. Pins 221-222 are labeled 110V and 110V. Pins 223-224 are labeled 0V and 0V. Pins 225-226 are labeled 120V and 120V. Pins 227-228 are labeled 110V and 110V. Pins 229-230 are labeled 0V and 0V. Pins 231-232 are labeled 120V and 120V. Pins 233-234 are labeled 110V and 110V. Pins 235-236 are labeled 0V and 0V. Pins 237-238 are labeled 120V and 120V. Pins 239-240 are labeled 110V and 110V. Pins 241-242 are labeled 0V and 0V. Pins 243-244 are labeled 120V and 120V. Pins 245-246 are labeled 110V and 110V. Pins 247-248 are labeled 0V and 0V. Pins 249-250 are labeled 120V and 120V. Pins 251-252 are labeled 110V and 110V. Pins 253-254 are labeled 0V and 0V. Pins 255-256 are labeled 120V and 120V. Pins 257-258 are labeled 110V and 110V. Pins 259-260 are labeled 0V and 0V. Pins 261-262 are labeled 120V and 120V. Pins 263-264 are labeled 110V and 110V. Pins 265-266 are labeled 0V and 0V. Pins 267-268 are labeled 120V and 120V. Pins 269-270 are labeled 110V and 110V. Pins 271-272 are labeled 0V and 0V. Pins 273-274 are labeled 120V and 120V. Pins 275-276 are labeled 110V and 110V. Pins 277-278 are labeled 0V and 0V. Pins 279-280 are labeled 120V and 120V. Pins 281-282 are labeled 110V and 110V. Pins 283-284 are labeled 0V and 0V. Pins 285-286 are labeled 120V and 120V. Pins 287-288 are labeled 110V and 110V. Pins 289-290 are labeled 0V and 0V. Pins 291-292 are labeled 120V and 120V. Pins 293-294 are labeled 110V and 110V. Pins 295-296 are labeled 0V and 0V. Pins 297-298 are labeled 120V and 120V. Pins 299-300 are labeled 110V and 110V. Pins 301-302 are labeled 0V and 0V. Pins 303-304 are labeled 120V and 120V. Pins 305-306 are labeled 110V and 110V. Pins 307-308 are labeled 0V and 0V. Pins 309-310 are labeled 120V and 120V. Pins 311-312 are labeled 110V and 110V. Pins 313-314 are labeled 0V and 0V. Pins 315-316 are labeled 120V and 120V. Pins 317-318 are labeled 110V and 110V. Pins 319-320 are labeled 0V and 0V. Pins 321-322 are labeled 120V and 120V. Pins 323-324 are labeled 110V and 110V. Pins 325-326 are labeled 0V and 0V. Pins 327-328 are labeled 120V and 120V. Pins 329-330 are labeled 110V and 110V. Pins 331-332 are labeled 0V and 0V. Pins 333-334 are labeled 120V and 120V. Pins 335-336 are labeled 110V and 110V. Pins 337-338 are labeled 0V and 0V. Pins 339-340 are labeled 120V and 120V. Pins 341-342 are labeled 110V and 110V. Pins 343-344 are labeled 0V and 0V. Pins 345-346 are labeled 120V and 120V. Pins 347-348 are labeled 110V and 110V. Pins 349-350 are labeled 0V and 0V. Pins 351-352 are labeled 120V and 120V. Pins 353-354 are labeled 110V and 110V. Pins 355-356 are labeled 0V and 0V. Pins 357-358 are labeled 120V and 120V. Pins 359-360 are labeled 110V and 110V. Pins 361-362 are labeled 0V and 0V. Pins 363-364

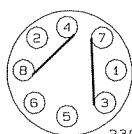
110V



127V



220 V



230~240V

J : U. S. A.
C : CANADA
EN : NORDIC COUNTRIES
E : CONTINENTAL EUROPE
EE : EASTERN EUROPE
B : U. K.
A : AUSTRALIA
UP : KOREA
UB : HONG KONG
US : SINGAPORE
UT : TAIWAN
UX : SAUDI ARABIA
U : UNIVERSAL EXCEPT ALL OF ABOVE

NOTES :

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DETAILS ARE EXPLAINED NEAR THE MARK.

DC Regulators / Audio Output Section

6

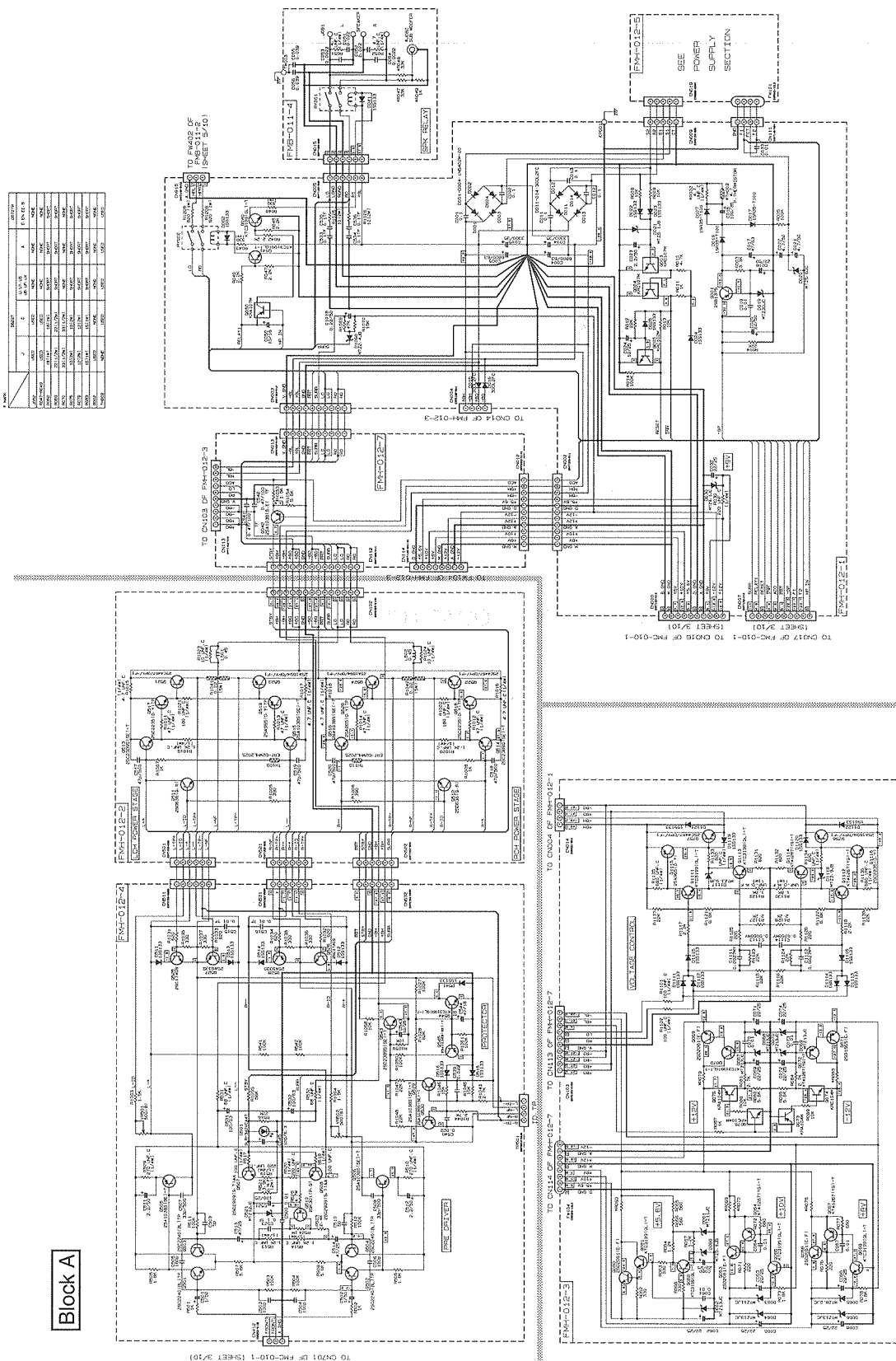
5

4

3

2

1



Block A

Block C

Block B

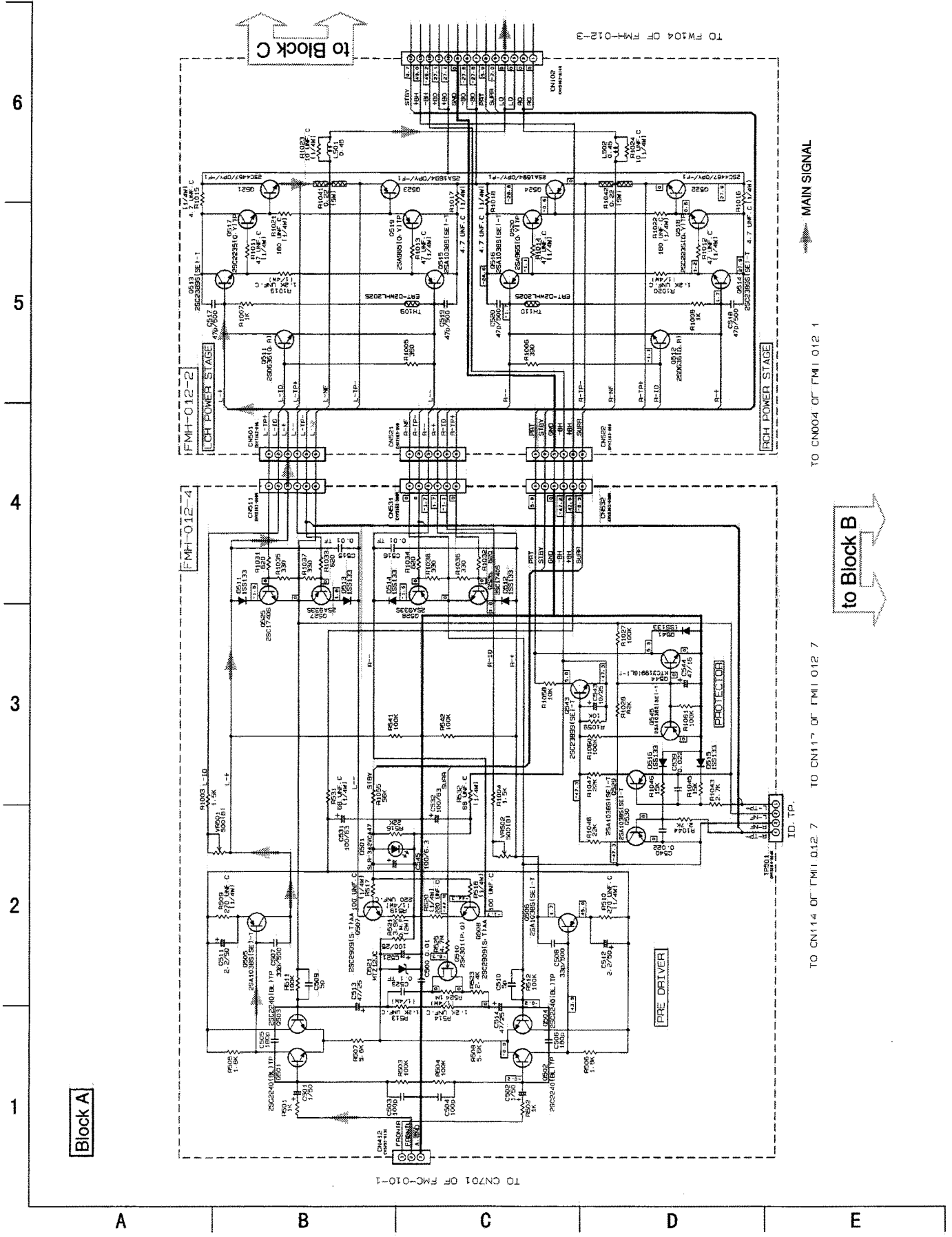
A

B

C

D

E

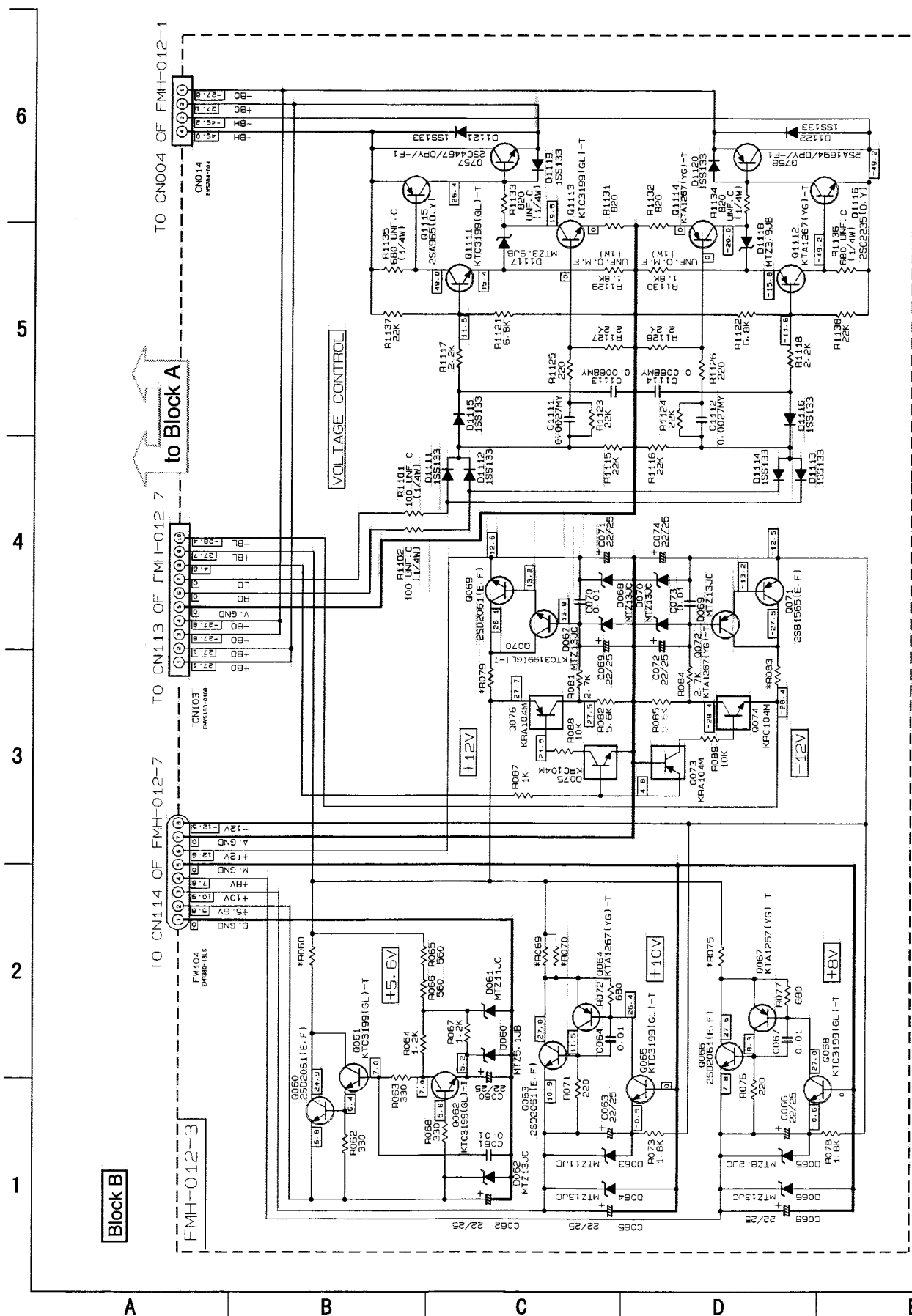


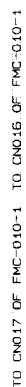
MAIN SIGNAL

to Block B

TO CN117 OF FM1 012 7

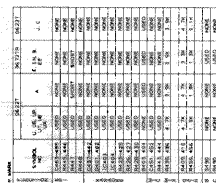
TO CN114 OF FM1 012 7





#	MARK	OBJET				OBJETS
		J	C	U ET VS EN ET UR	A	
0000		US00	US00		NOVE	NOVE
0001	0049	US00	US00		NOVE	NOVE
0000		1011A1	1011A1	SHORT	SHORT	SHORT
0000		2011(2W)	2011(2W)	SHORT	SHORT	SHORT
0070		2311(2W)	2311(2W)	NOVE	NOVE	NOVE
0075		1012A1	1012A1	SHORT	SHORT	SHORT
0078		1212A1	1212A1	SHORT	SHORT	SHORT
0083		1511A1	1511A1	SHORT	SHORT	SHORT
0010		US00	US00	NOVE	NOVE	NOVE
0010		US00	US00	US00	US00	US00

 MAIN SIGNAL



Block A

6

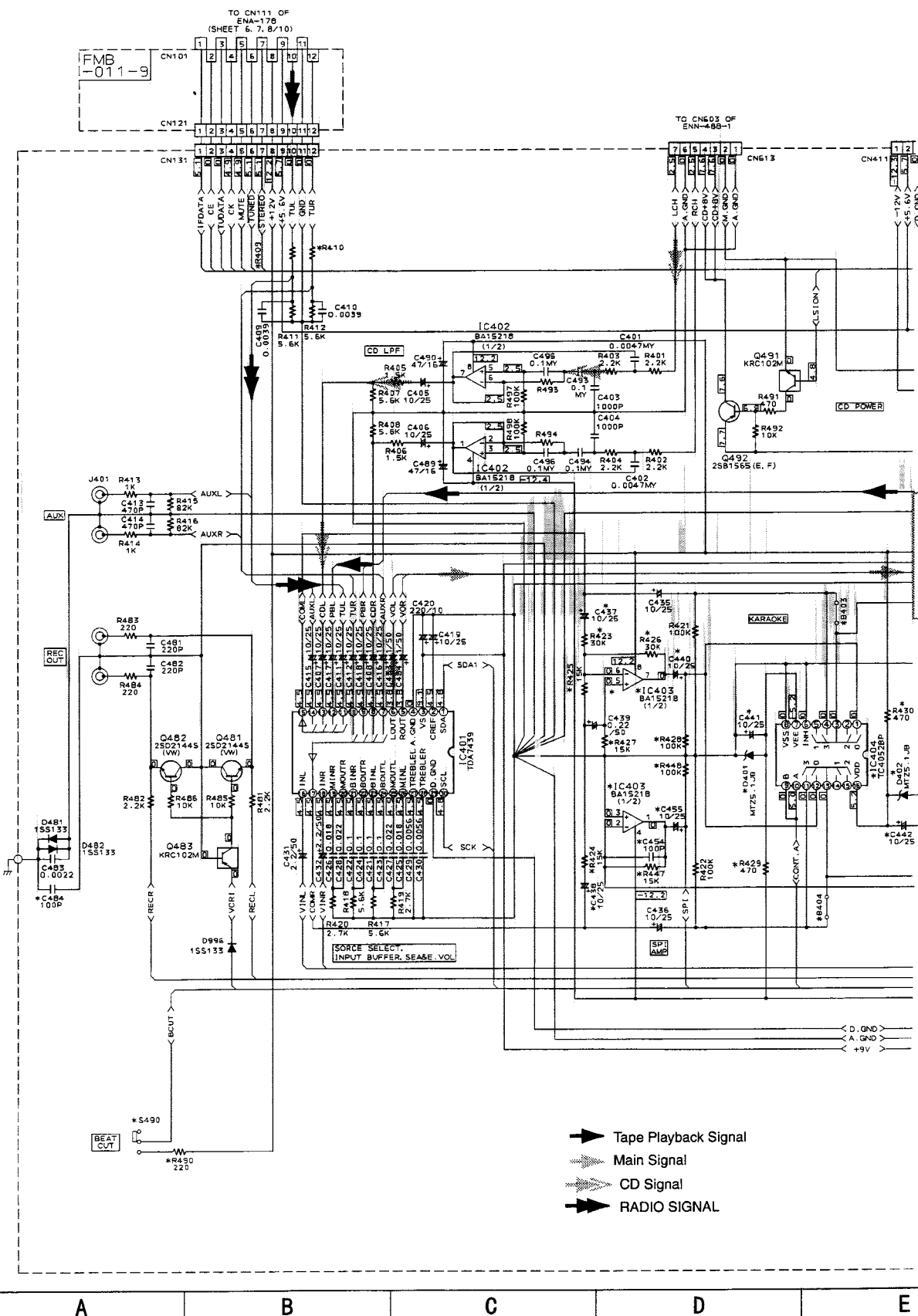
5

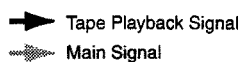
4

3

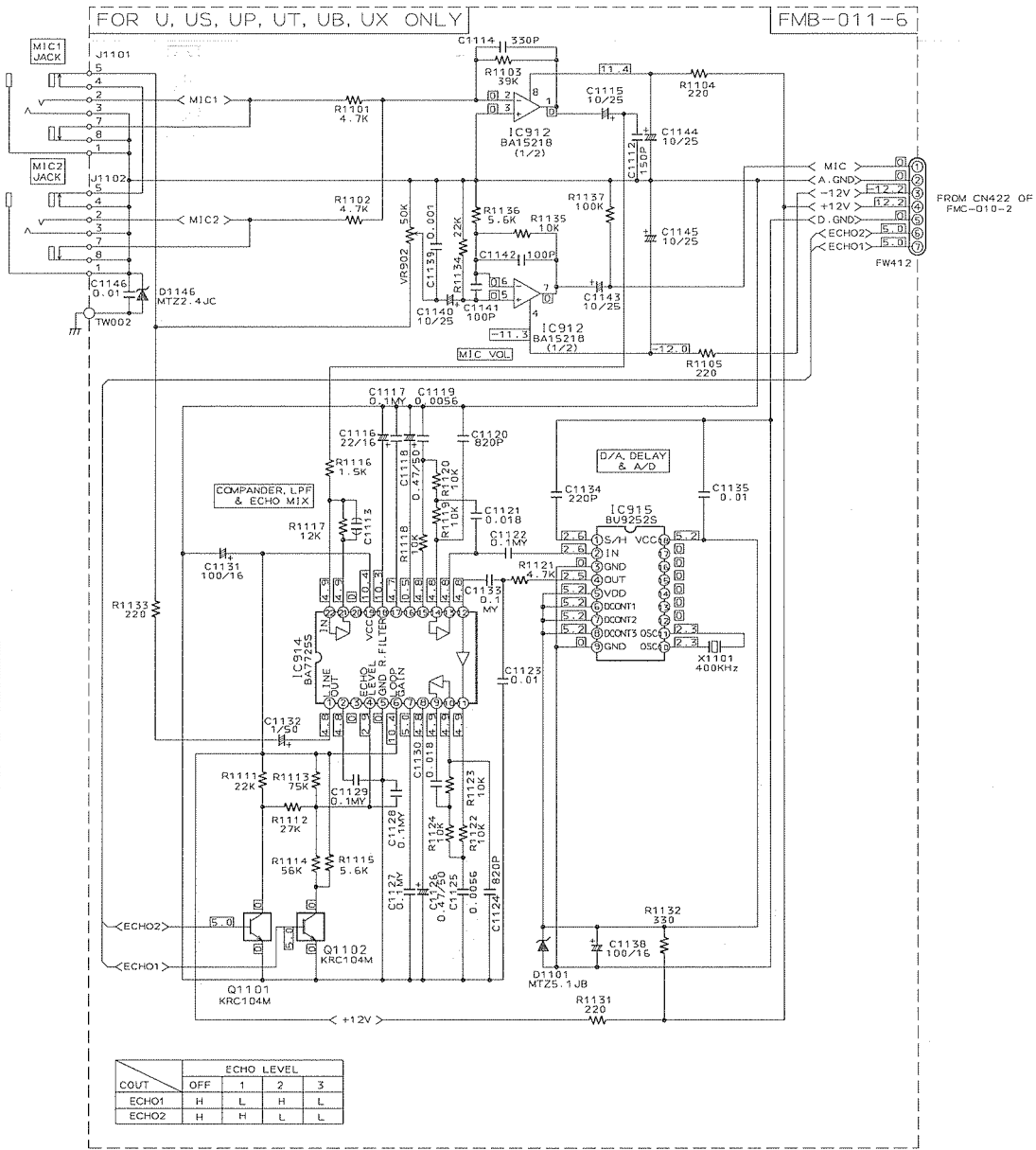
2

1



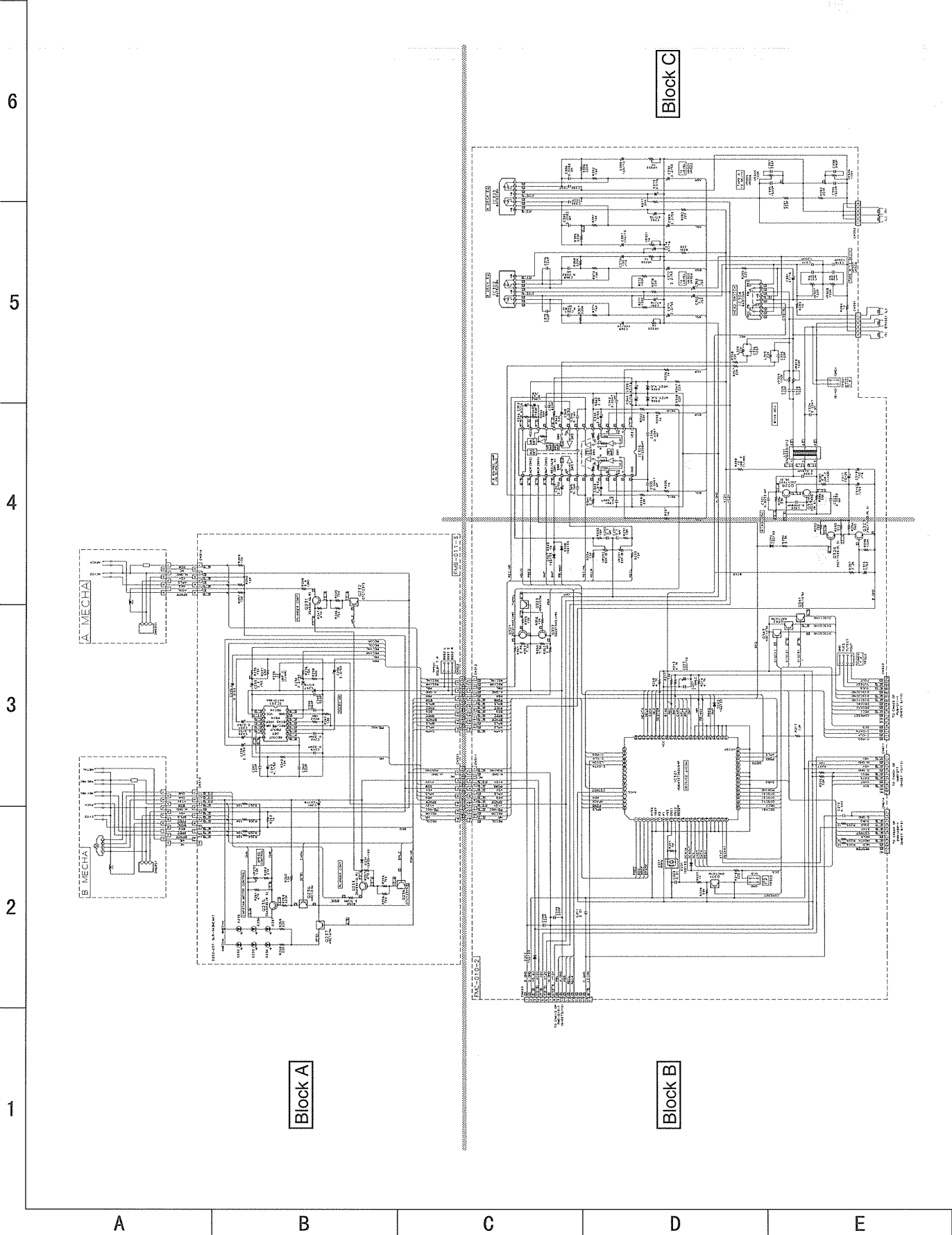


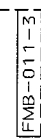
Block C

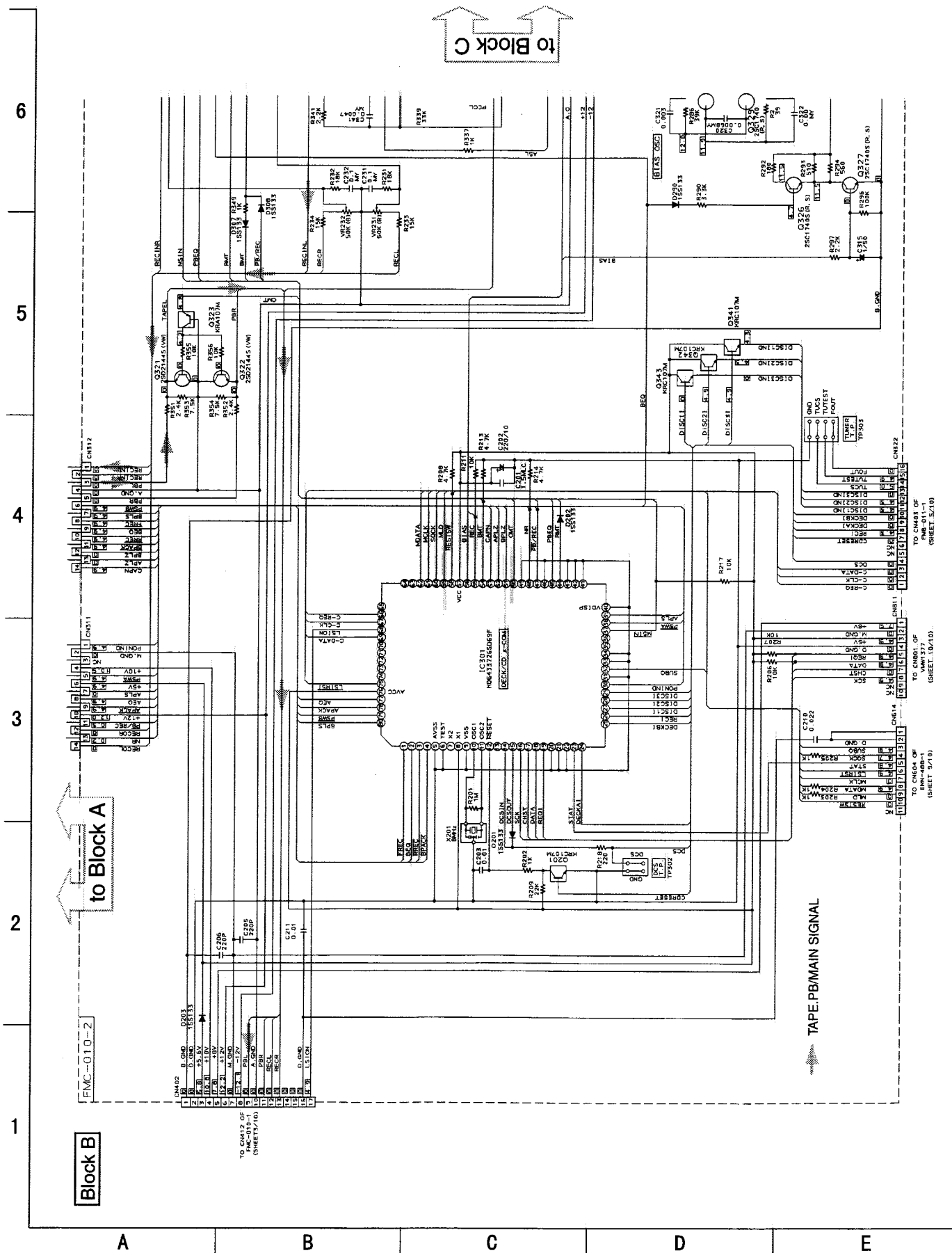


* MARK					
P NO	SYMBOL NO.	D672T			
		U, US, UP, UT, UB UX	A	E, EN, B, EE	J, C
C453-455	USED	NONE	NONE	NONE	NONE
	USED	NONE	NONE	NONE	NONE
	USED	SHORT	SHORT	NONE	NONE
	USED	NONE	NONE	NONE	NONE
C437-442	USED	NONE	NONE	NONE	NONE
	USED	NONE	NONE	NONE	NONE
	USED	NONE	NONE	NONE	NONE
	USED	NONE	NONE	NONE	NONE
R423-425	USED	NONE	NONE	NONE	NONE
	USED	NONE	NONE	NONE	NONE
	USED	NONE	NONE	NONE	NONE
	USED	NONE	NONE	NONE	NONE
B403, 404	NONE	USED	USED	USED	USED
	USED	NONE	NONE	NONE	NONE
	USED	NONE	NONE	NONE	NONE
	4.7K	3.9K	3.9K	3.9K	3.9K
R409, 410	4.7K	4.7K	3.3K	4.7K	4.7K
	1.3K	1.3K	1.3K	5.1K	5.1K
	S490	NONE	NONE	USED	NONE
	R490	NONE	NONE	USED	NONE

■ Tape Mechanism Control Section

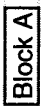


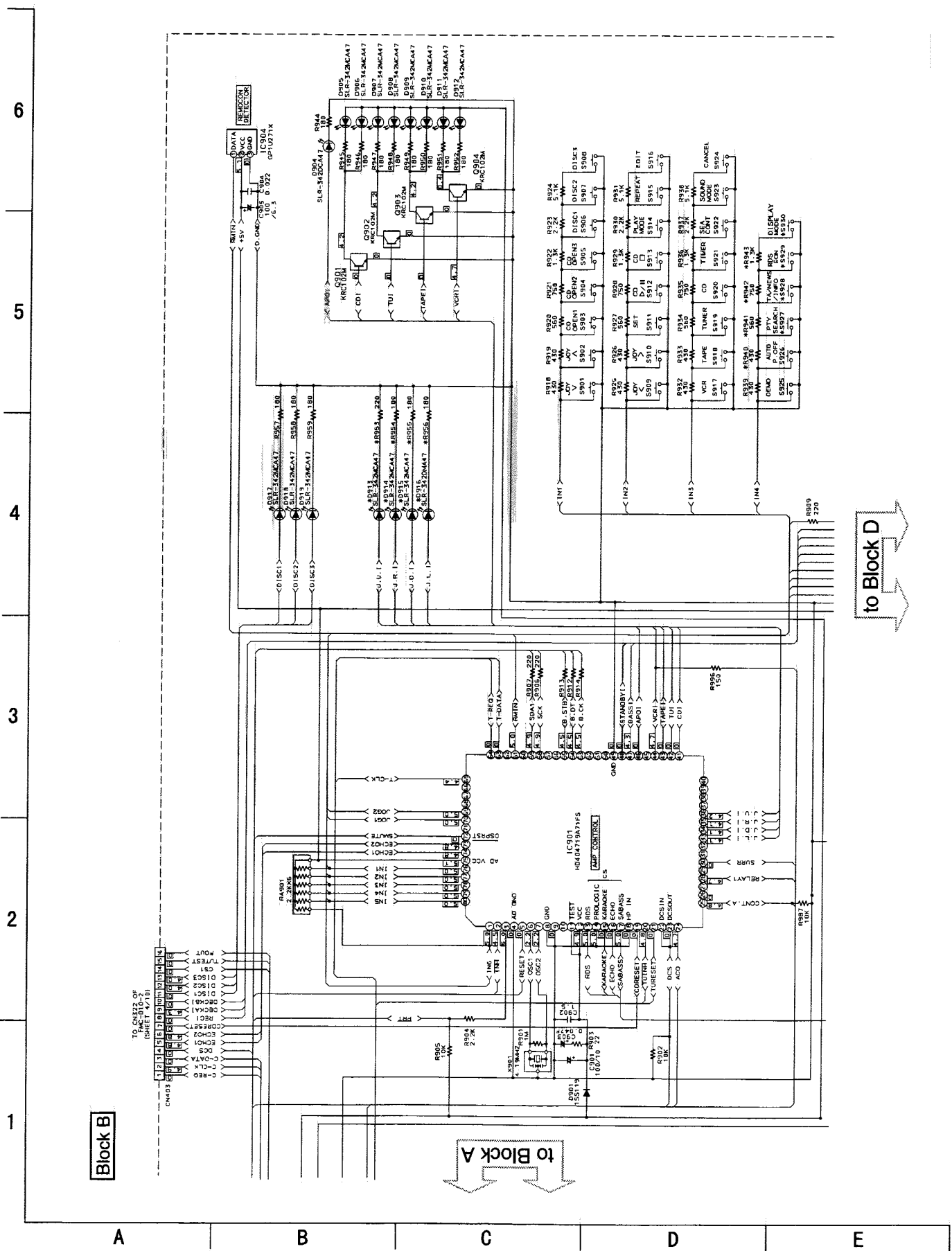


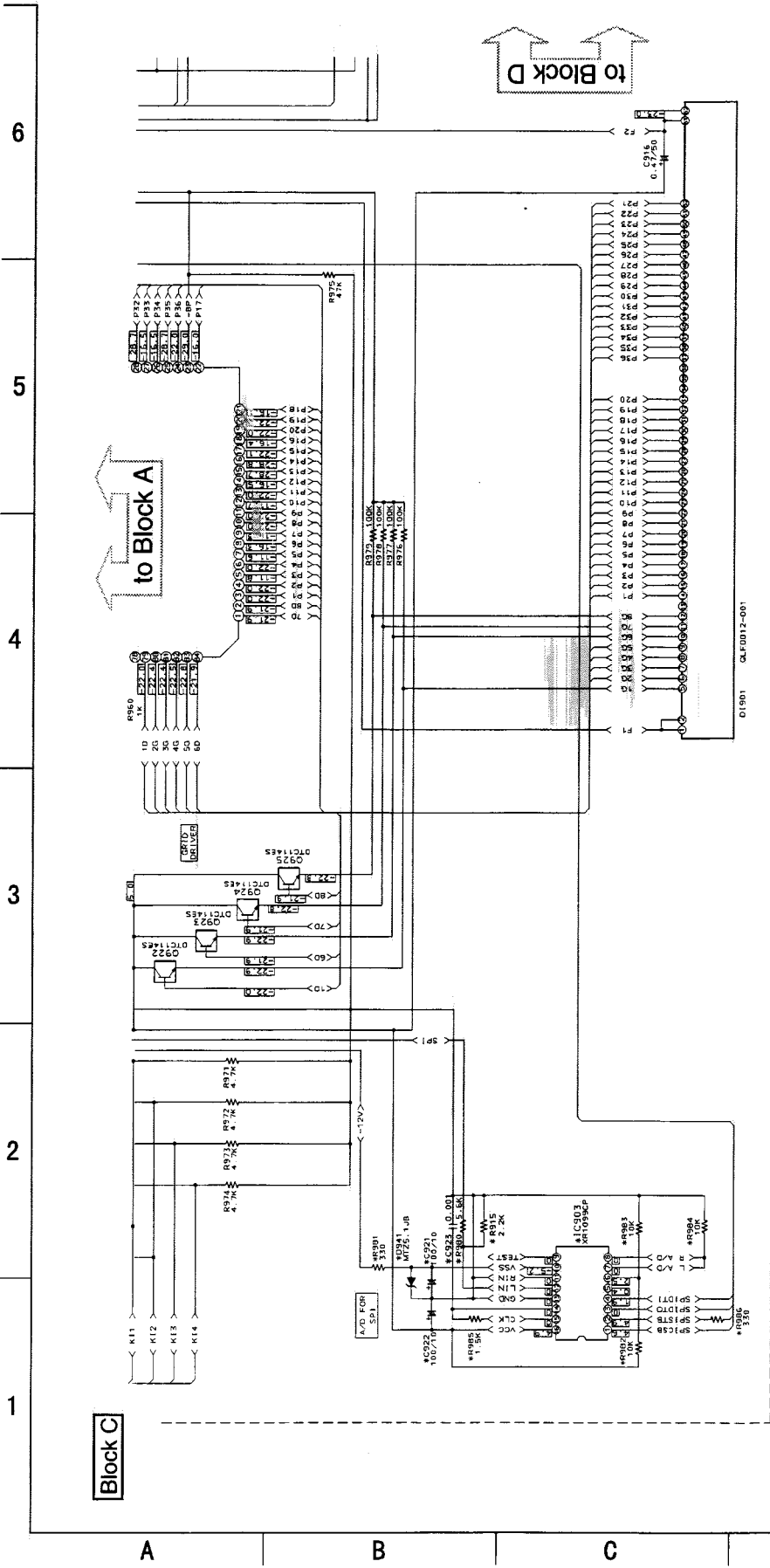






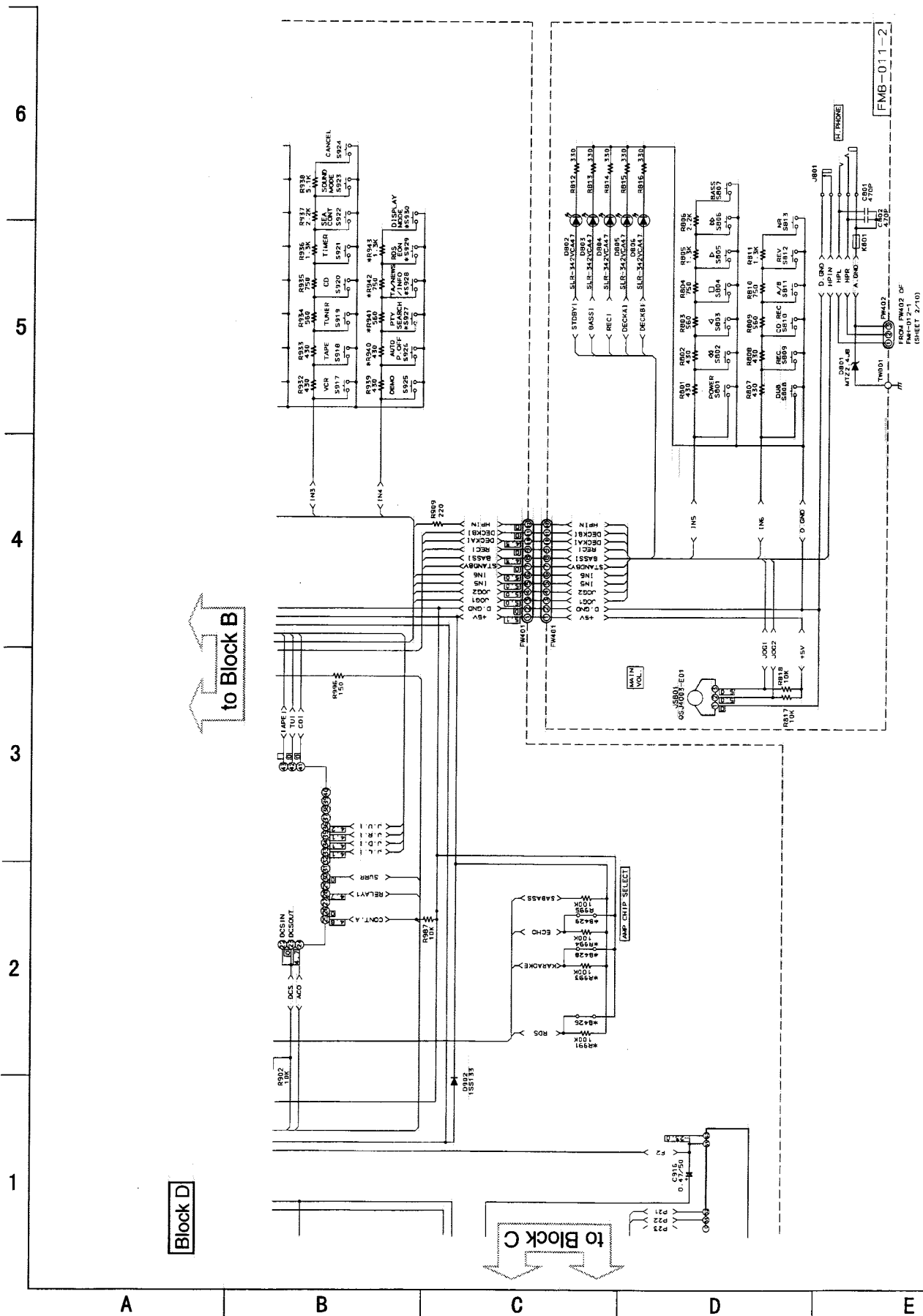




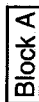


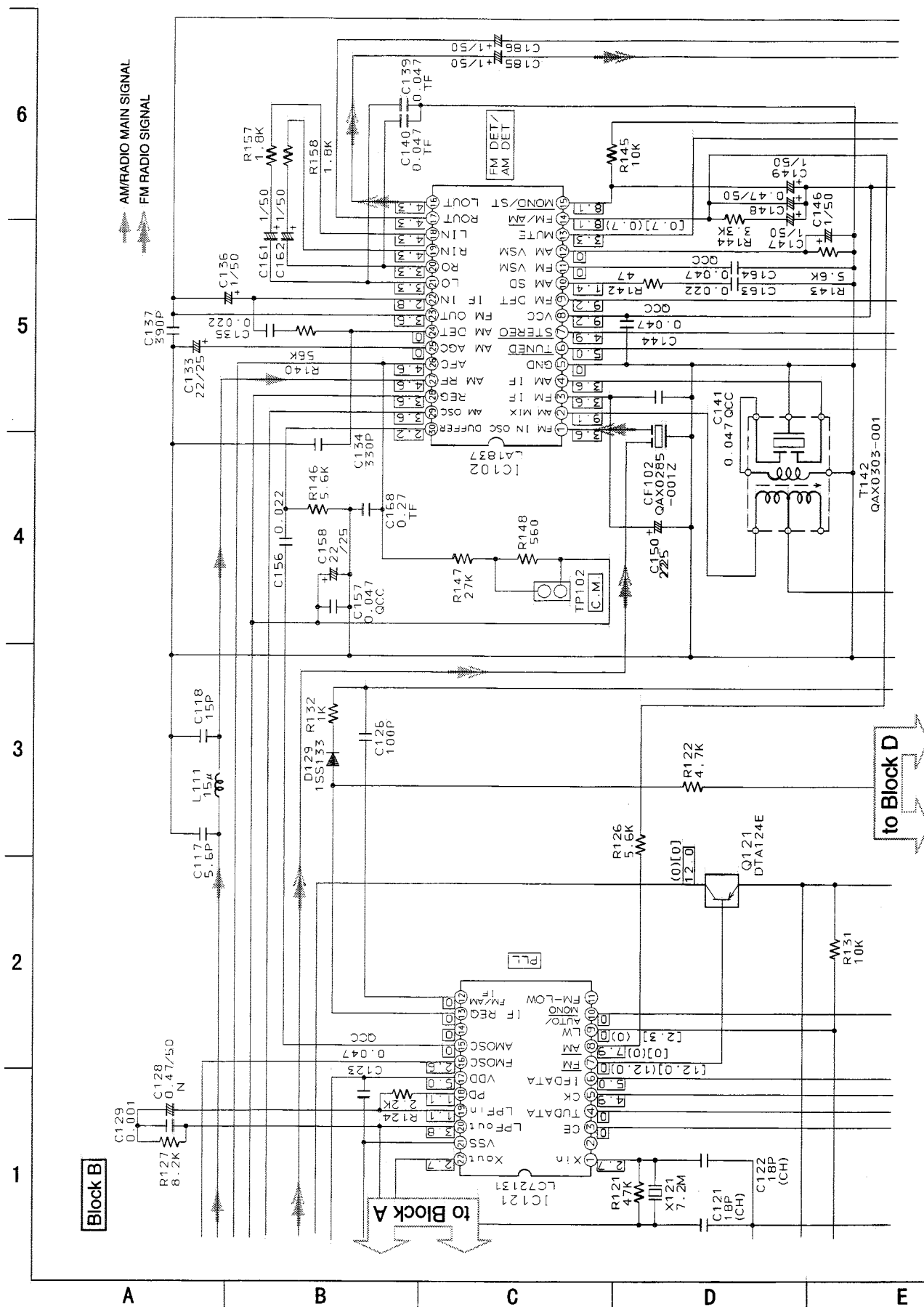
* MARK LIST

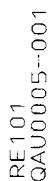
U.I. UP U.I. J.C	D622T	A	EE	D672TB	E, EN, B	D622T	J.C
B401	USED	USED	NONE	NONE	NONE	USED	NONE
B425	USED	USED	USED	USED	NONE	USED	NONE
B426	NONE	USED	USED	USED	NONE	USED	NONE
B429	NONE	USED	USED	USED	NONE	USED	NONE
C921-923	USED	NONE	NONE	NONE	NONE	USED	NONE
C9402	NONE	NONE	NONE	USED	NONE	USED	NONE
D931	NONE	NONE	USED	USED	NONE	USED	NONE
D932	NONE	NONE	USED	USED	NONE	USED	NONE
D933	NONE	NONE	USED	USED	NONE	USED	NONE
D934	USED	NONE	NONE	USED	NONE	USED	NONE
D935	NONE	NONE	USED	USED	NONE	USED	NONE
D941	USED	NONE	NONE	USED	NONE	USED	NONE
IC903	USED	NONE	NONE	NONE	NONE	USED	NONE
R980-985	USED	NONE	NONE	NONE	NONE	USED	NONE
R991	NONE	NONE	NONE	USED	NONE	USED	NONE
R993	USED	NONE	NONE	NONE	NONE	USED	NONE
R994	USED	NONE	NONE	NONE	NONE	USED	NONE
R940-943	NONE	NONE	USED	USED	NONE	USED	NONE
R942-950	NONE	NONE	USED	USED	NONE	USED	NONE
R941, K11	NONE	NONE	NONE	NONE	NONE	USED	NONE
D913-916	NONE	NONE	NONE	NONE	NONE	USED	NONE
R953-954	NONE	NONE	NONE	NONE	NONE	USED	NONE

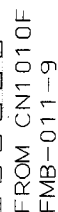




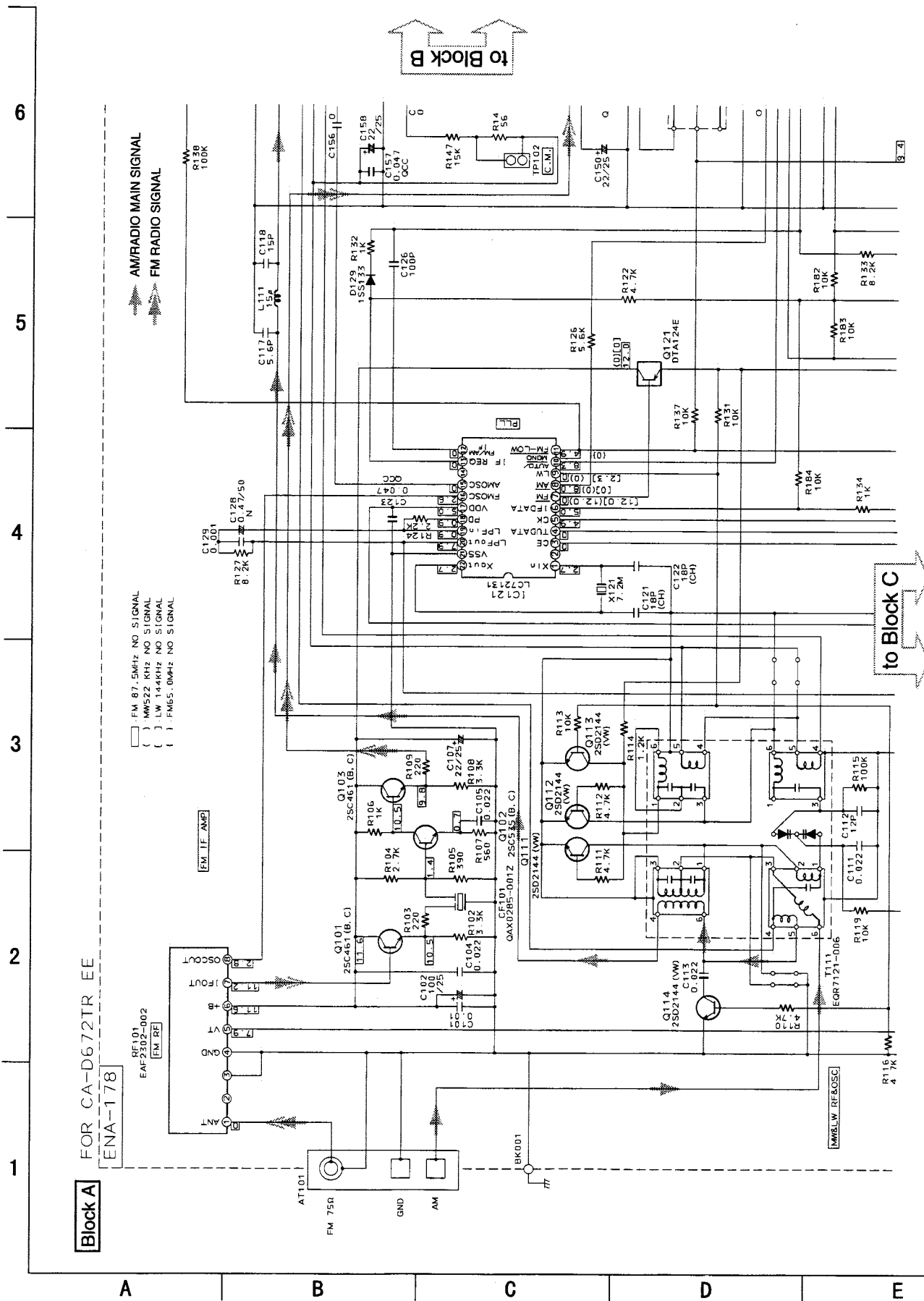


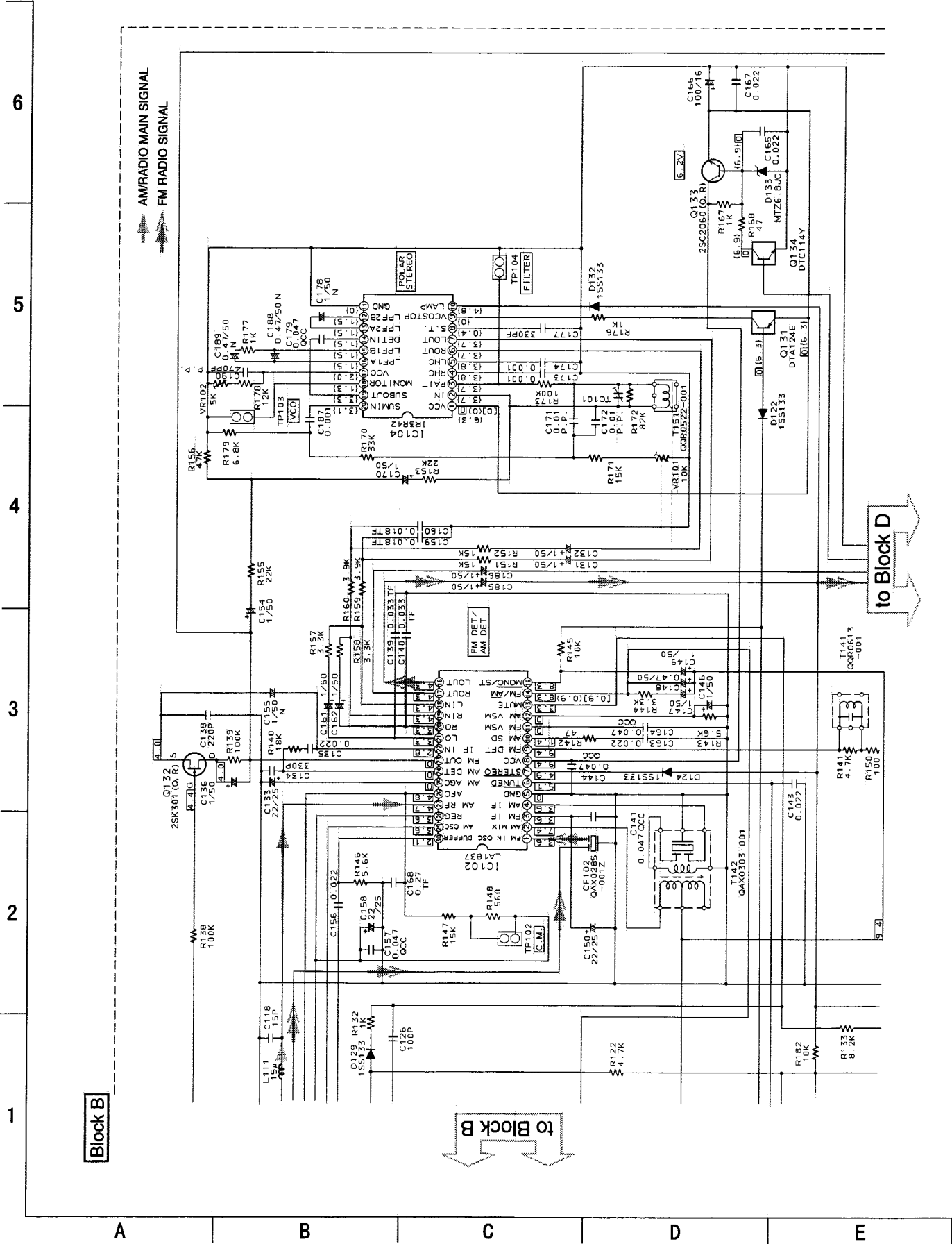


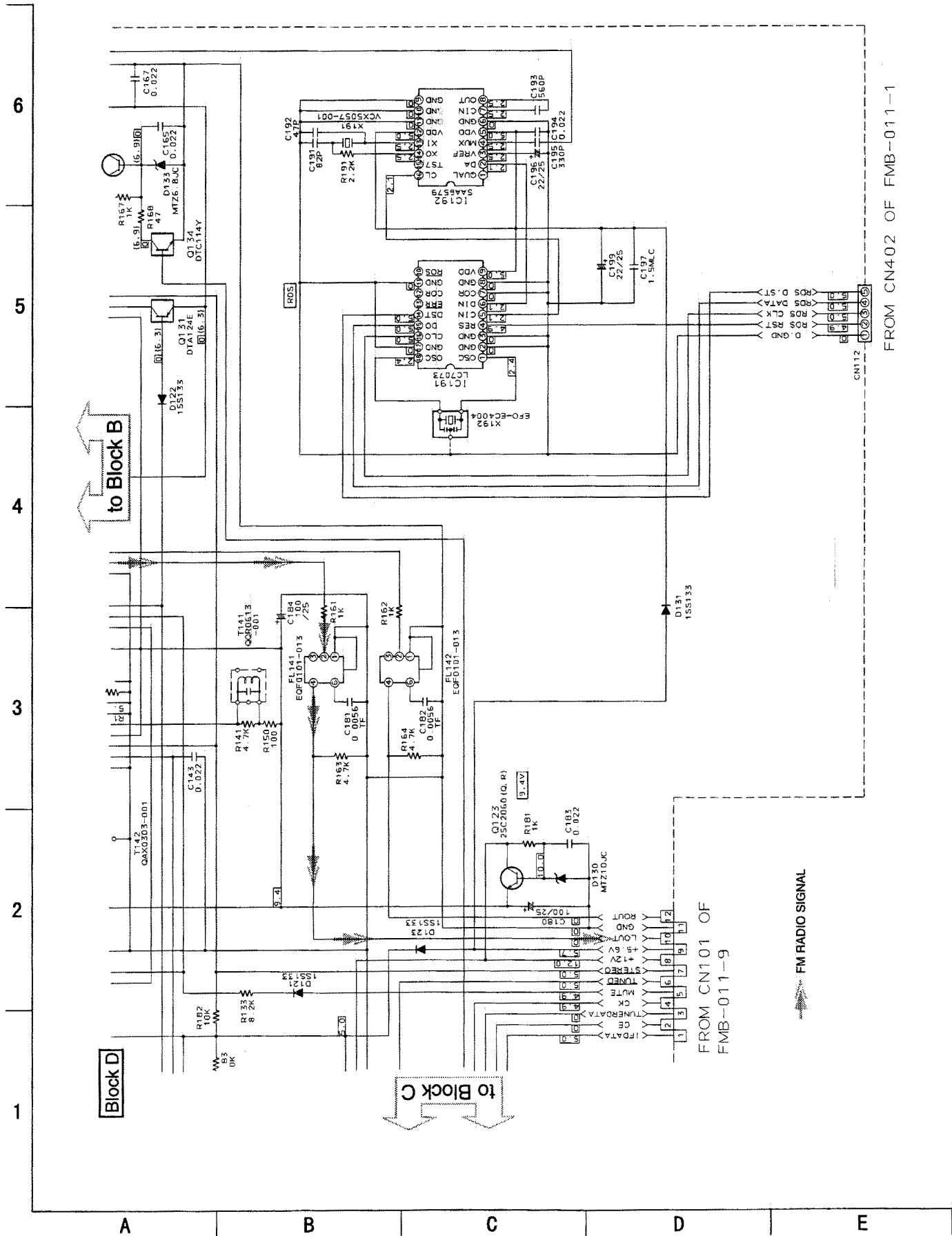










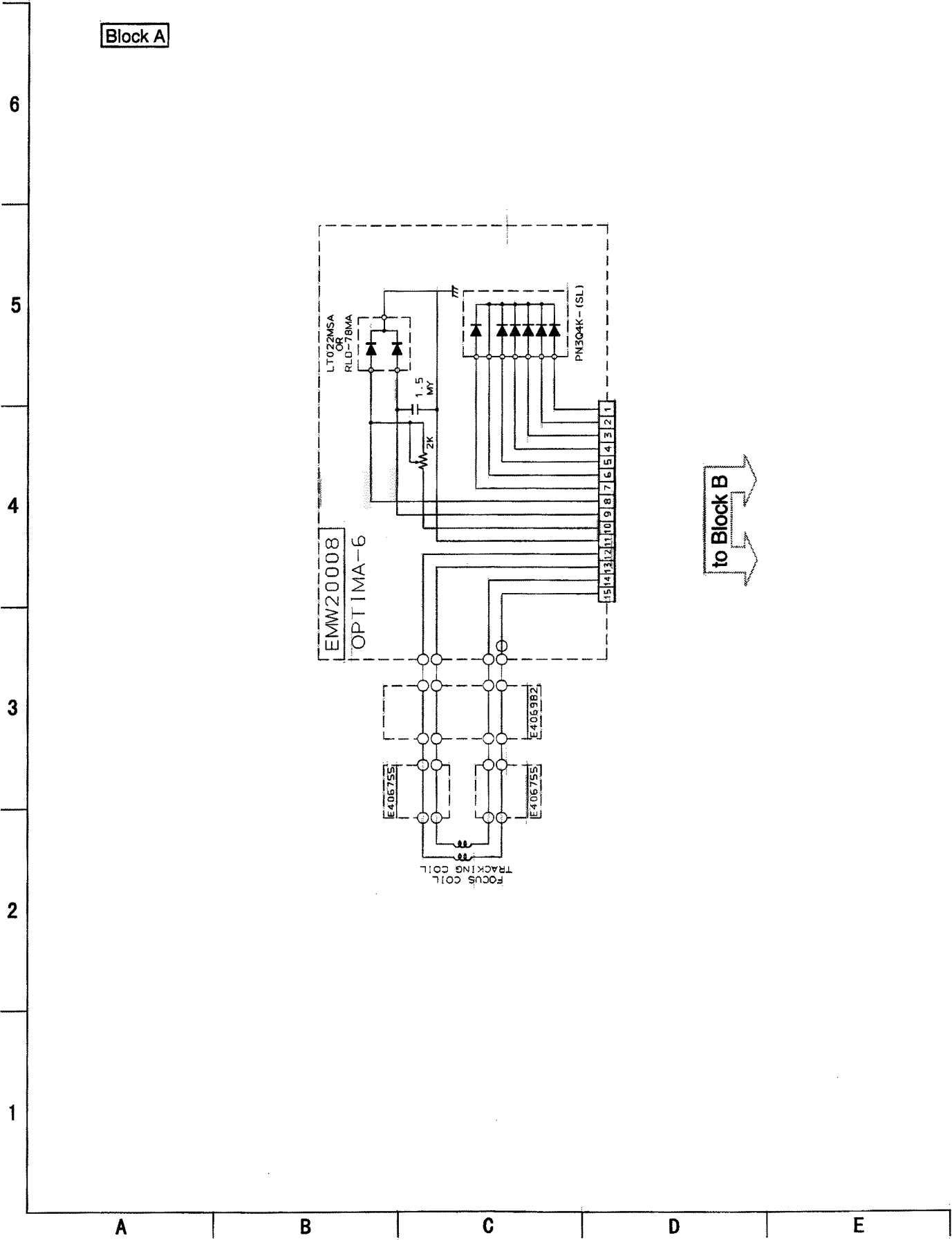


FROM CN402 OF FMB-011-1

FROM CN101 OF FMB-011-9

FM RADIO SIGNAL

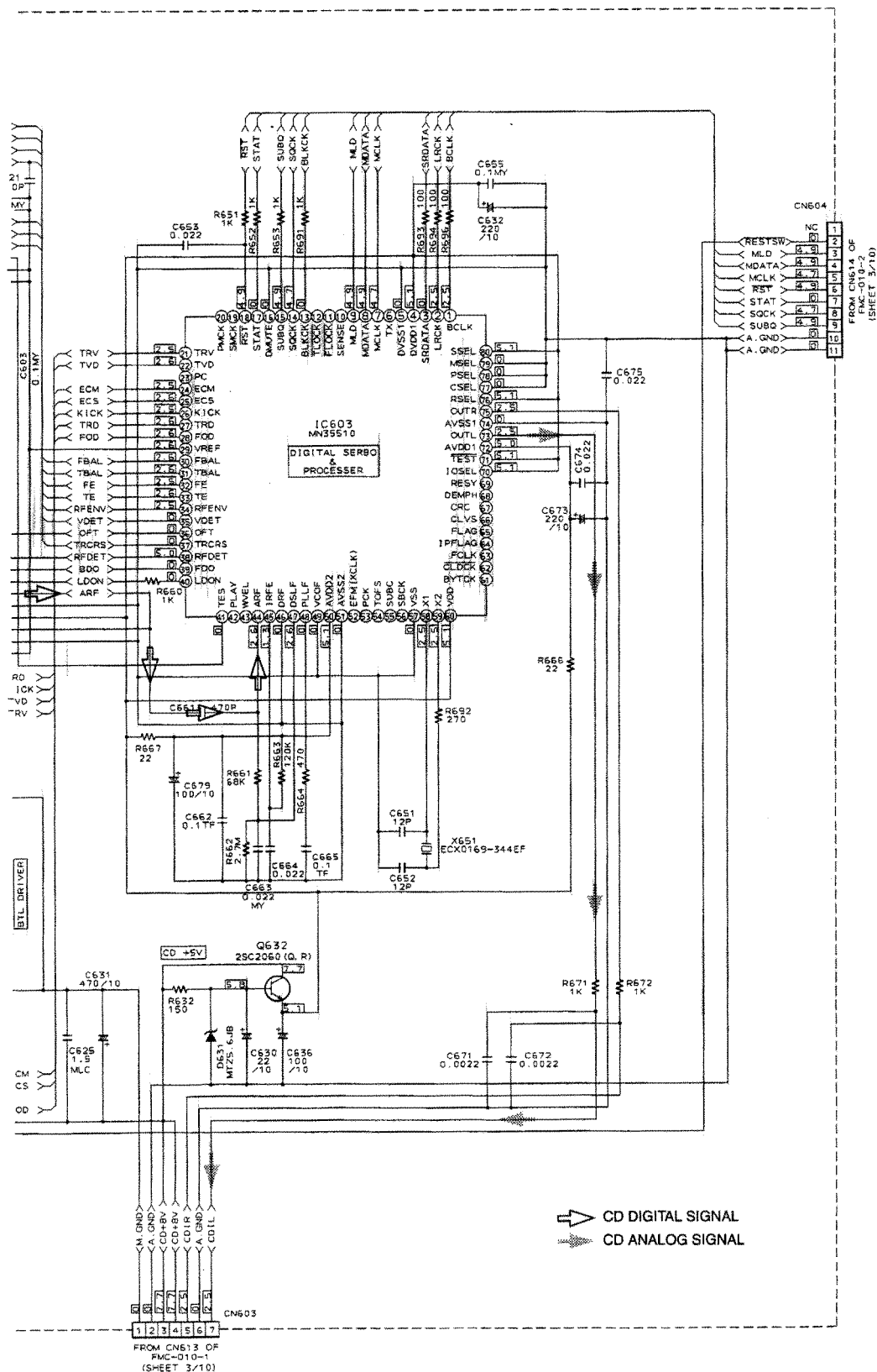






Block C

to Block B



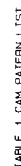


TABLE 1. CAM CATEGORICAL TEST

[illegible]

- ① UNFLAMMABLE CARBON RESISTOR
- ② METAL FILM RESISTOR
- ③ OXIDE METAL FILM RESISTOR
- ④ ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
- ⑤ NON-POLARIZED ELECTROLYTIC CAPACITOR
- ⑥ POLYPROPYLENE CAPACITOR
- ⑦ POLYSTYRENE CAPACITOR

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- DISC 1 CD STOP NOTE

CONDITION --- DISC 1 TO STOP MODE

- ALL RESISTANCE VALUES ARE IN OHMS.
- ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
- ALL CAPACITANCE VALUES ARE IN μ F(P.P.T.).
- ALL INDUCTANCE VALUES ARE IN μ H(MH).
- ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE μ F/RATED V

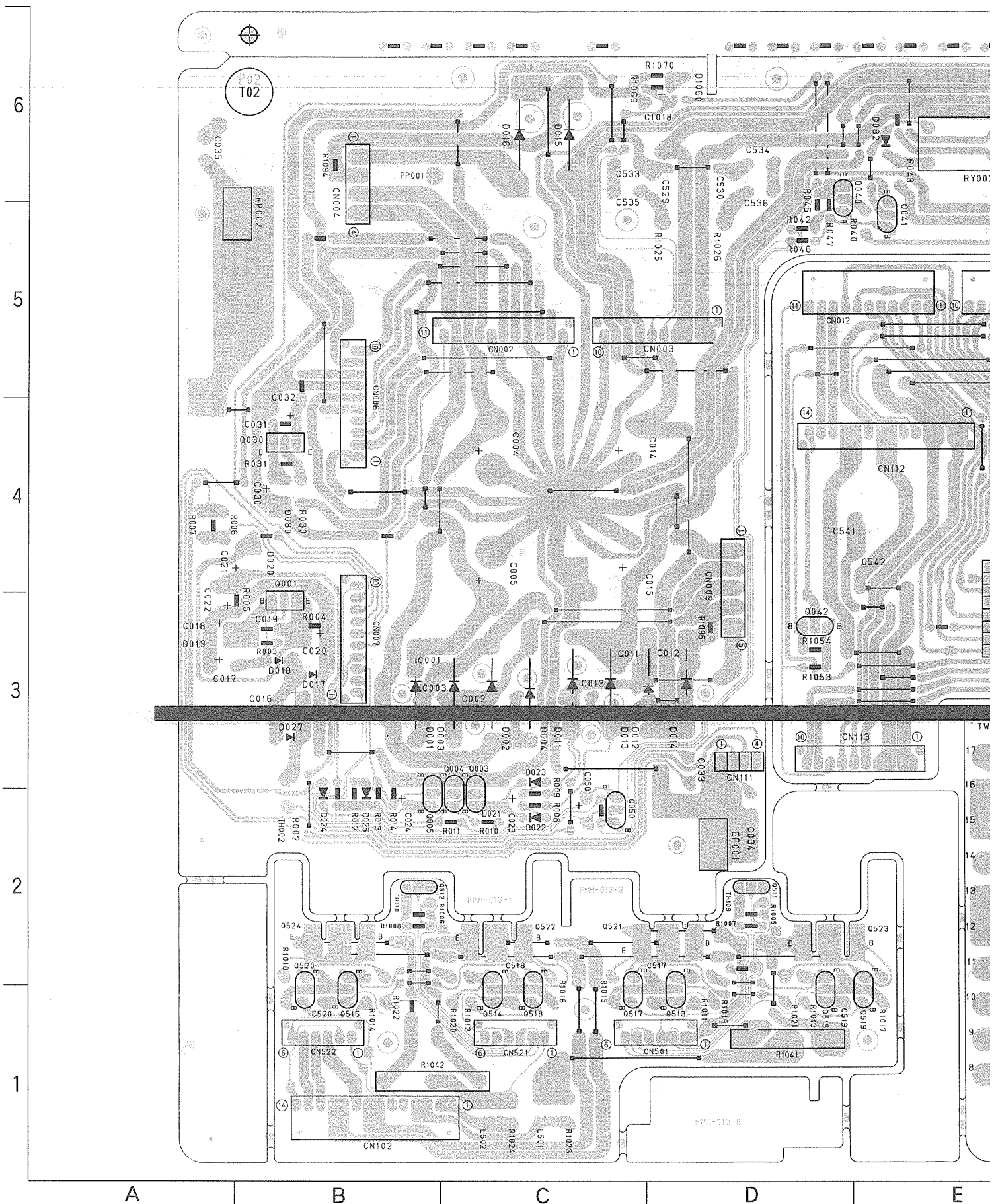
CONDITION --- 015Z: 1 CD STOP MODE.

ALL RESISTANCE SPECIFIED. RESISTORS ARE 1/4W 1% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL CAPACITORS ARE COMBIC CAPACITOR OR MILAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN P(P-P).
ALL INDUCTANCE VALUES ARE IN MHMMH.
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE 16F/RATED VOLTAGE (V).

—MEMO—

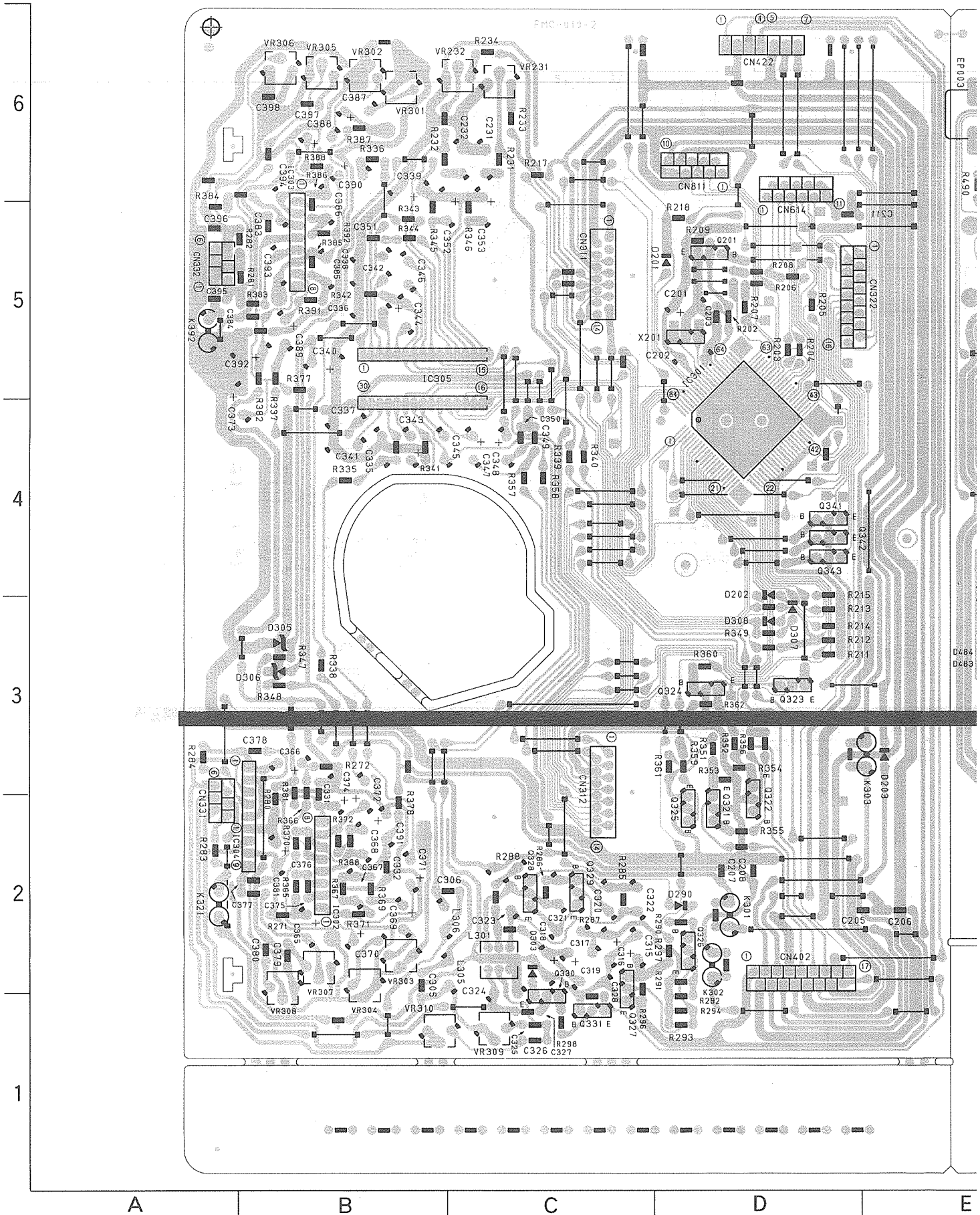
Location of P. C. Board Parts

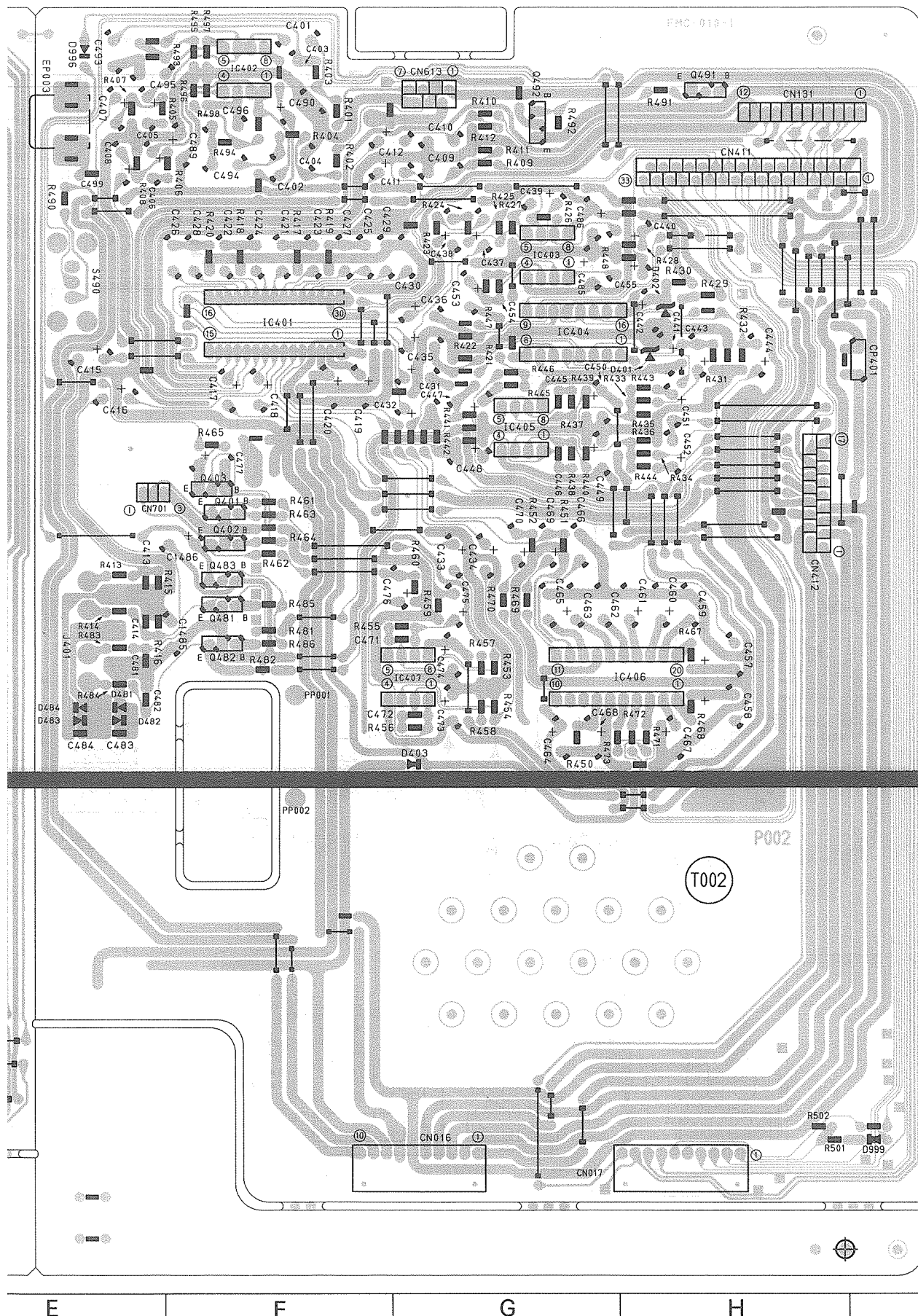
■ Power Supply / DC Regulator P. C. Board



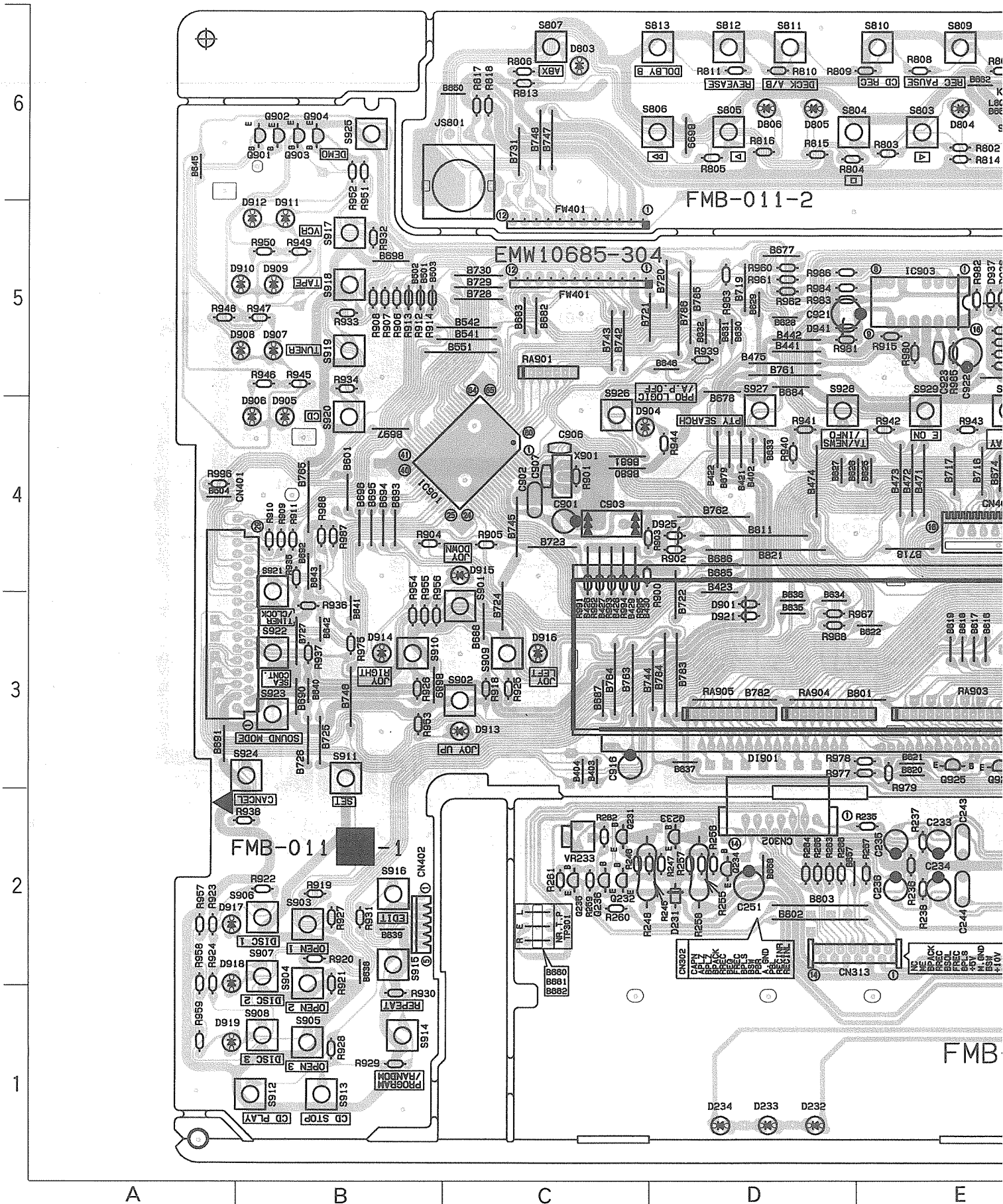


Main P.C. Board / Cassette Mecha. Control P.C. Board

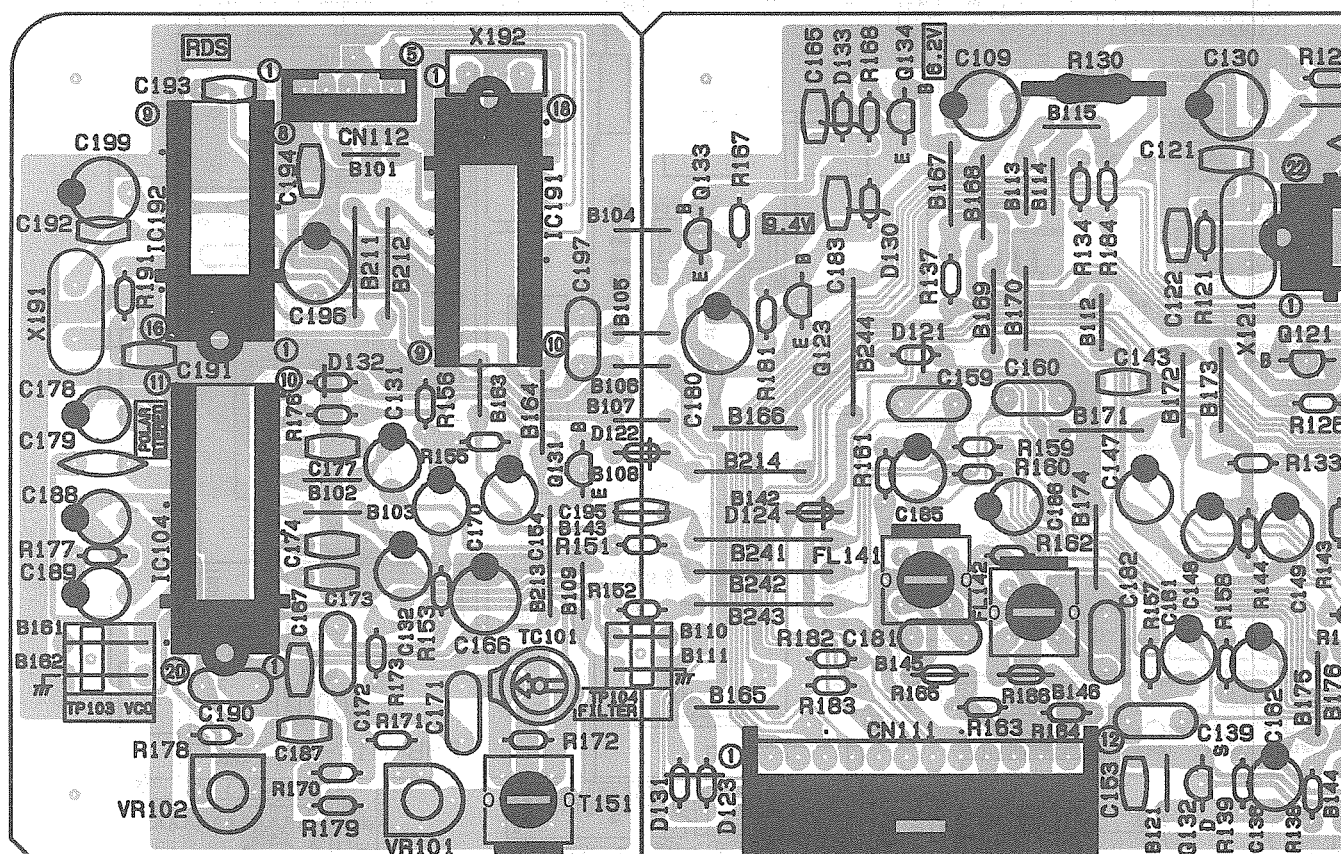




■ Front P.C. Board



6



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D

E

■ CD Control P.C. Board

6

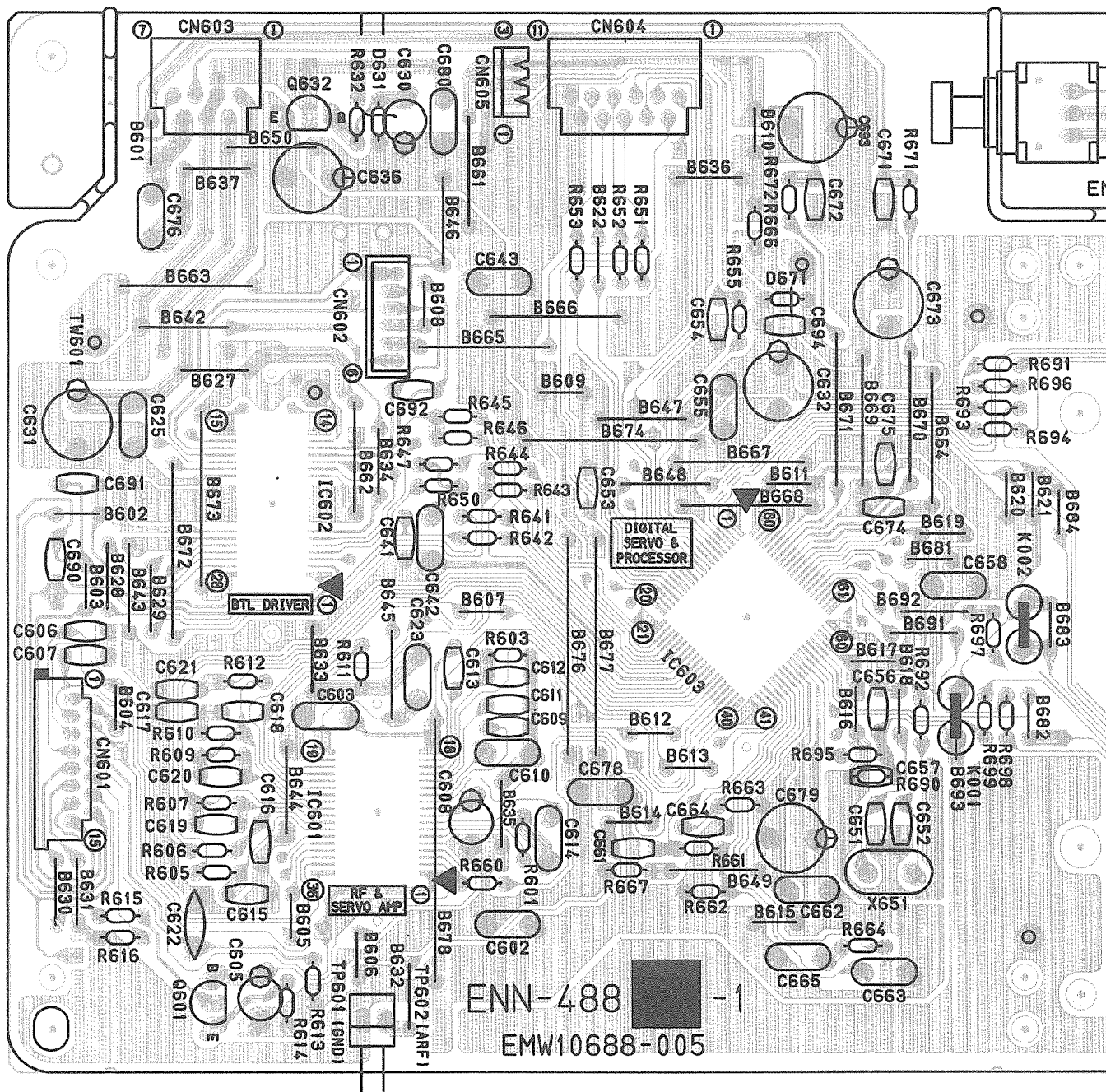
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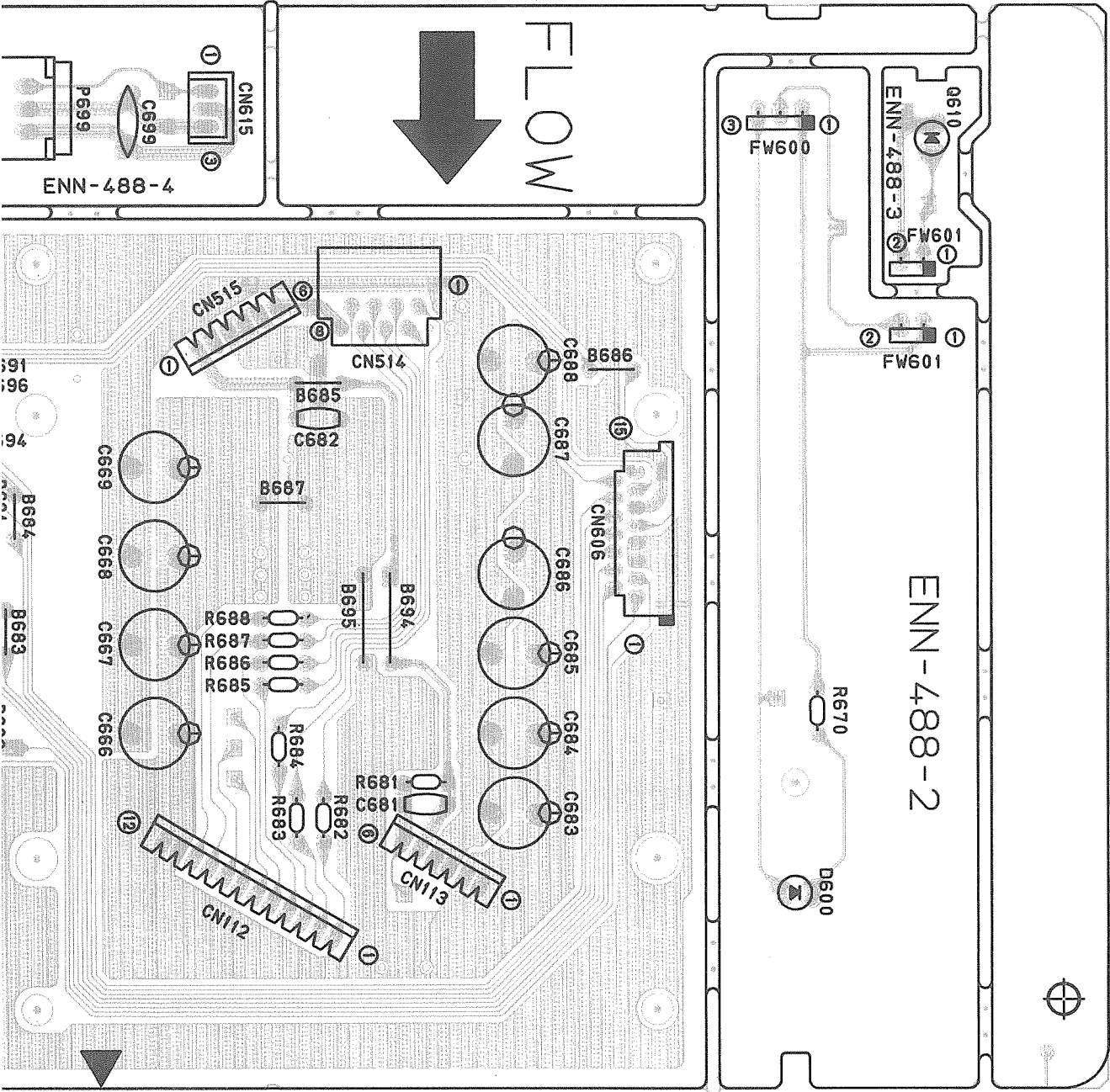
4

3

2

1





—MEMO—

PARTS LIST

[CA-D672TR]

1. Those parts can not to sent as a rule that has not printed or be displayed 「—」 on the parts list.
2. The printed circuit board will be not sent as a rule.
3.  Parts are safety assurance parts. When replacing those parts, make sure to use to specified one.
4. All printed circuit boards and its assemblies are not available as service parts.

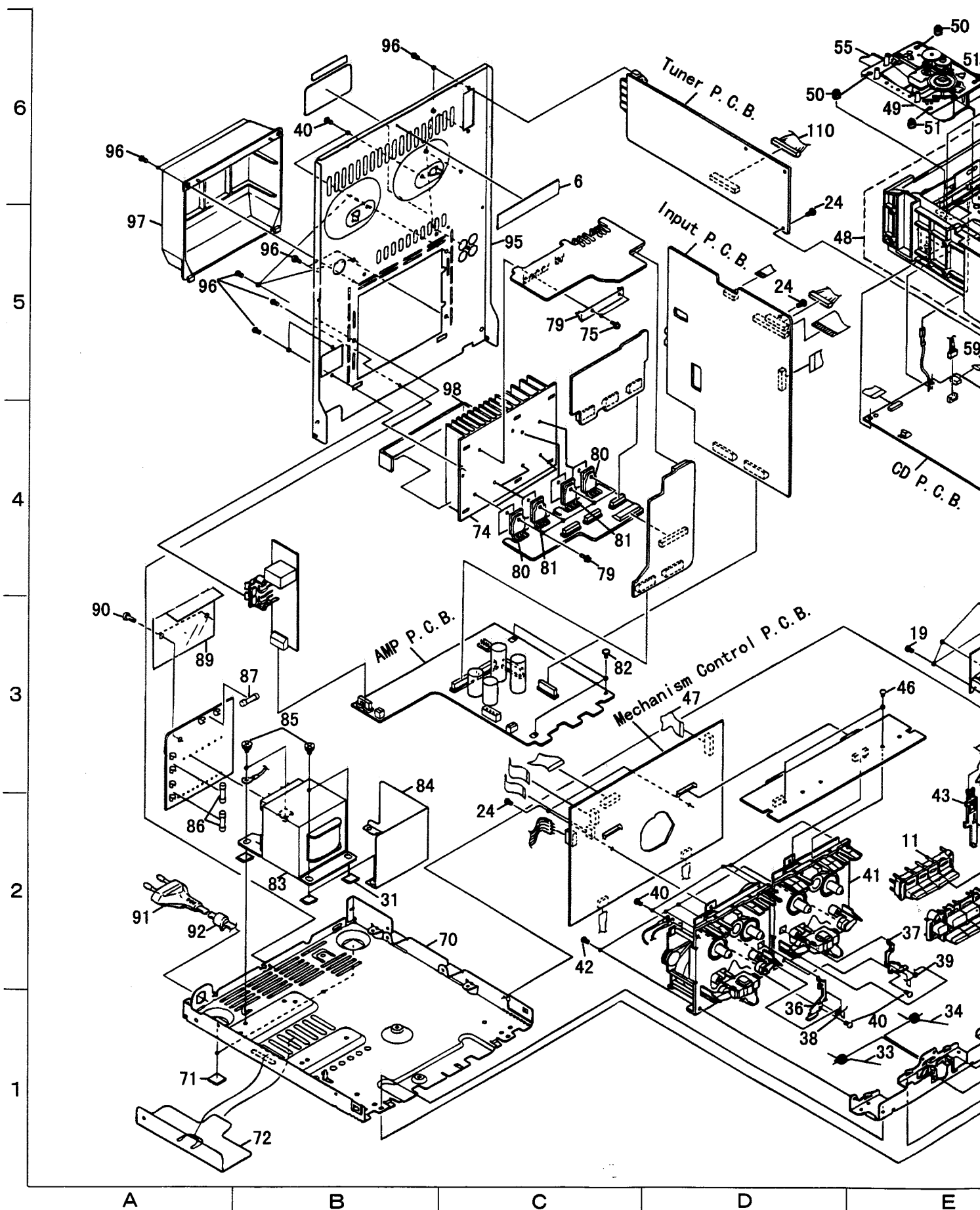
Area Suffix

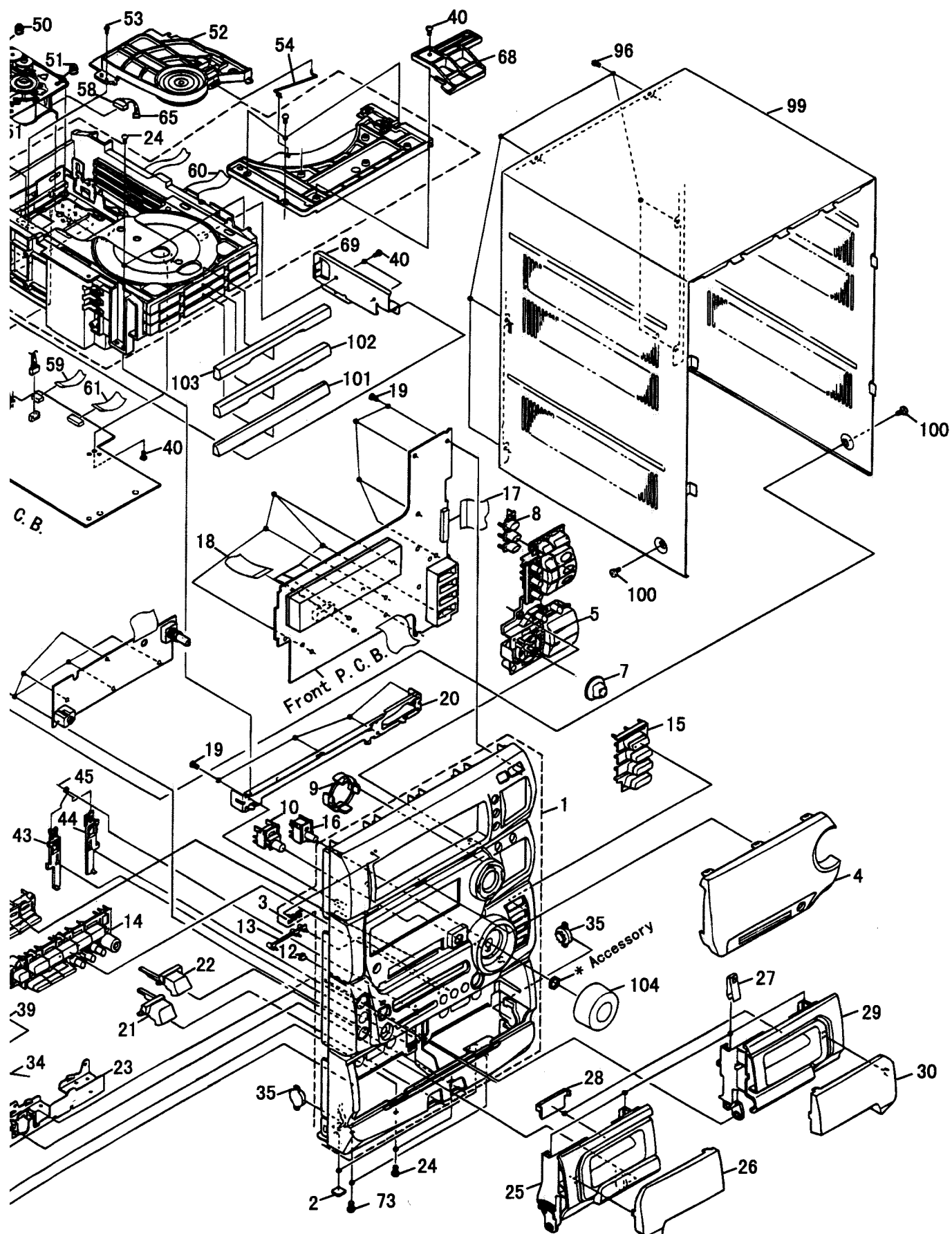
B ----- U.K.
 E ----- Continental Europe
 EE ----- Eastern Europe
 EN ----- Northern Europe

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General Exploded View and Parts List





E

F

G

H

I

■Parts list

BLOCK NO. M1MM1111

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	E103259-019SMKP	FRONT PANAEL		1		
	2	E75896-001	SPACER		2		
	3	E406971-001SM	JVC MARK		1		
	4	E209142-023SMKP	WINDOW SCREEN		1		
	5	E209144-003SM	P.BUTTON(SOUND)		1		
	6	E406709-001	LASER CAUTION		1		
	7	E310199-001SM	JOY KNOB		1		
	8	E310192-001SM	P.BUTTON(DISC)		1		
	9	E310189-001SM	INDICATOR	JOY	1		
	10	E310194-001SM	P.BUTTON	SURR. ON/OFF	1		
	11	E310205-002SM	P.BUTTON	RDS	1		
	12	E409555-001SM	INDICATOR	STANDBY	1		
	13	E310191-001SM	INDICATOR	REC,A/B	1		
	14	E209146-006SM	P.BUTTON ASSY		1		
	15	E209149-001SM	P.BUTTON(SOURCE		1		
	16	E310190-002SM	P.BUTTON(DEMO)		1		
	17	VWF1233-20TTB	CARD WIRE		1		
	18	VWF1216-13TTB	CARD WIRE		1		
	19	SDSF2608Z	SCREW		22		
	20	E310195-001SM	STAY BKT		1		
	21	E310196-003SM	EJECT BUTTOM		1		
	22	E310197-003SM	EJECT BUTTOM		1		
	23	E208588-002SM	HOLDER BKT		1		
	24	SBSG3008Z	T.SCREW		8		
	25	E103261-008SMKP	CASS.HOLDER(A)		1		
	26	E209151-001SM	CASS.LENS		1		
	27	E406713-001	CASS.SPRING		4		
	28	E310204-001SM	INDICATOR		2		
	29	E103263-006SMKP	CASS.HOLDER		1		
	30	E209152-001SM	CASS.LENS		1		
	31	E406309-002	SPACER		4		
	33	LE40300-001A	HOLDER SPRING		1		
	34	LE40286-001A	HOLDER SPRING		1		
	35	VYH7779-00B	DUMPER ASS'Y		2		
	36	E309477-222	EJECT SAFETY		1		
	37	E309478-222	EJECT SAFETY		1		
	38	E407801-002	SPRING		1		
	39	E407802-002	SPRING		1		
	40	SBSF3008Z	SCREW		11		
	41	-----	CASSETTE MECHA	PF	1		
	42	SBST3006Z	TH TAP SCREW		4		
	43	E309479-001SS	EJECT LEVER		1		
	44	E309480-001SS	EJECT LEVER		1		
	45	E408742-001SS	SPRING		1		
	46	SBST2604Z	SCREW		2		
	47	VWF1217-10TTB	FFC CABLE		1		
	48	-----	C3 CHANGER MEC		1		
	49	-----	CD MECHA.ASS'Y		1		
	50	FMYH4003-001	INSULATOR		2		
	51	FMYH4003-002	INSULATOR		2		
	52	VKS3703-00FMM	CLAMPER ASS'Y		1		
	53	SPST2606Z	SCREW	CLAMP ASSY	1		
	54	VKW5187-001	ROD		1		
	55	QUQ110-1509AJ	FLAT WIRE	PU-CD SERV	1		
	58	VDM1001-M001A	WIRE&TUBE		1		

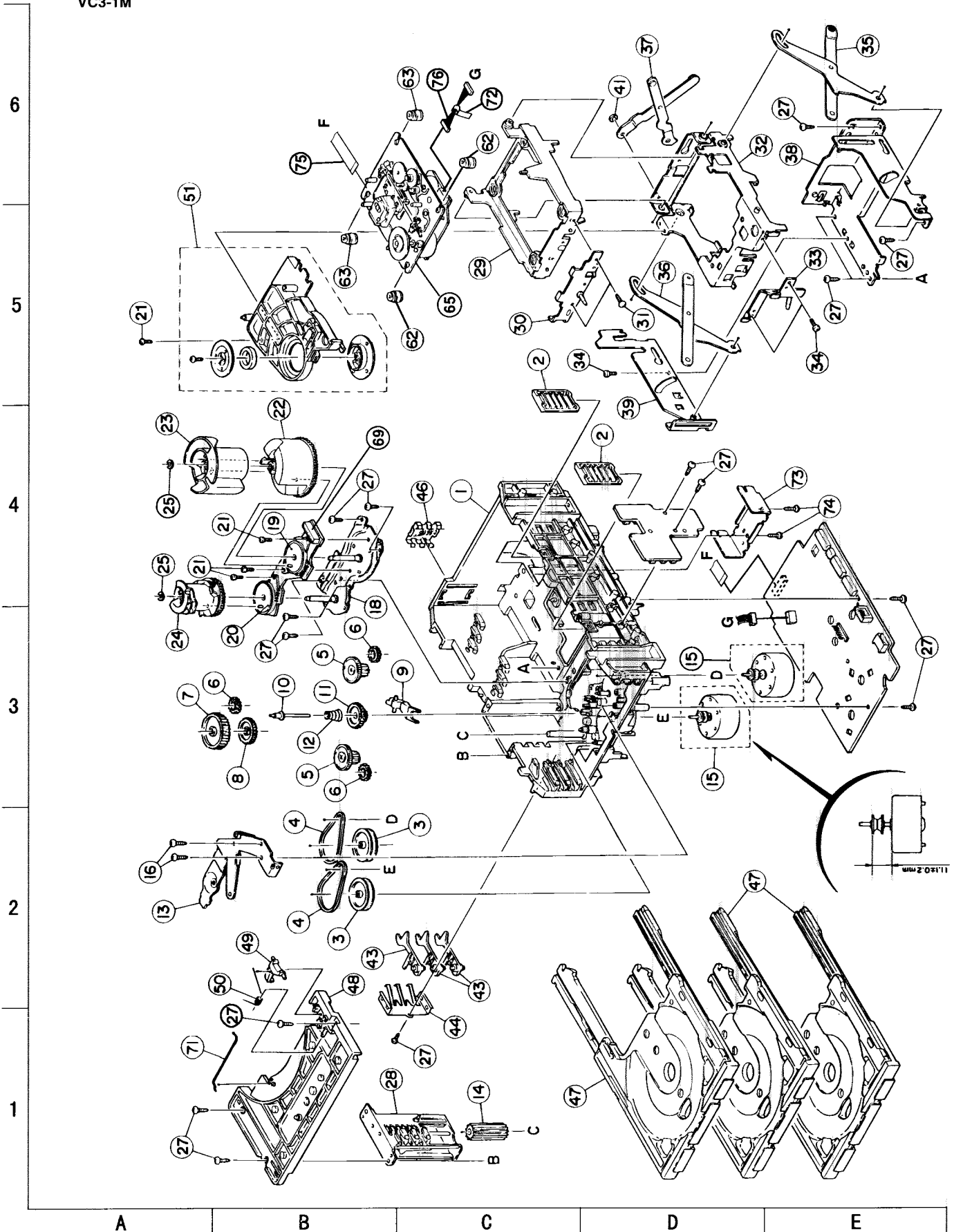
BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
59	VWF1207-07TTB	FFC		1		
60	VWF1210-27TTB	CARD WIRE		1		
61	VWF1211-22TTB	CARD WIRE		1		
65	VYSA1R2-033	SPACER	WIRE CLAMP	1		
68	E309662-001	DISC STOPPER		1		
69	E310198-001SM	BKT	FOR TUNER C.B	1		
70	E102616-230SM	CHASSIS BASE		1		
71	E75896-006	FELT SPACER		2		
72	E310075-001	COVER		1		
73	SBST3008Z	TH TAP SCREW	TO H.BKT	2		
74	E309844-005SMKP	HEAT SINK		1		
75	E407434-001SM	LEAF SPRING		1		
79	E73525-003	SCREW		8		
80	2SC4467/OPY/-F1	TRANSISTOR	Q757,Q521,Q522	3		
81	2SA1694/OPY/-F1	TRANSISTOR	Q758,Q523,Q524	3		
82	GBSG3008CC	T.SCREW	MAIN C.B	3		
83	FMTP1150-01EAKP	POWER TRANS		1		
84	LE30469-001A	SHIELD PLATE		1		
85	E65389-005	SPECIAL SCREW		4		
86	QMF51E2-3R15J1	FUSE	F101,F102	2		
87	QMF51E2-2R0	FUSE	F001	1		
89	GV40008-001AKP	PROTECT SHEET		1		
90	E310243-002	PLASTIC RIVET		2		
91	QMP39E0-200	POWER CORD		1	E,EE,EN	
91	QMP5530-0085BS	POWER CORD		1	B	
92	QHS3876-162	S.R.BUSHING		1	E,EE,EN	
92	QHS3876-162	S.R.BUSHING		1	B	
95	E103265-051SMKP	REAR PANEL		1	B,E,EN	
95	E103265-052SMKP	REAR PANEL		1	EE	
96	E73273-003	SPECIAL SCREW		18		
97	E207356-001SM	REAR COVER		1		
98	EX0150010H09S11	FELT SPACER		1		
99	E103267-005SMKP	METAL COVER		1		
100	SBSB3006M	T.SCREW	METAL COVER	2		
101	E209153-001SM	FITTING	DISC 1	1		
102	E209155-001SM	FITTING	DISC 2	1		
103	E209157-001SM	FITTING	DISC 3	1		
104	E310080-226SM	M.VOL.KNOB		1		
110	EWS26C-A408	SKT WIRE	CN121	1		

CD Changer Mechanism and Parts List

Block No. M 2 M M

VC3-1M



■ Parts List (Changer Mechanism Ass'y)

Block No. **M2MM**

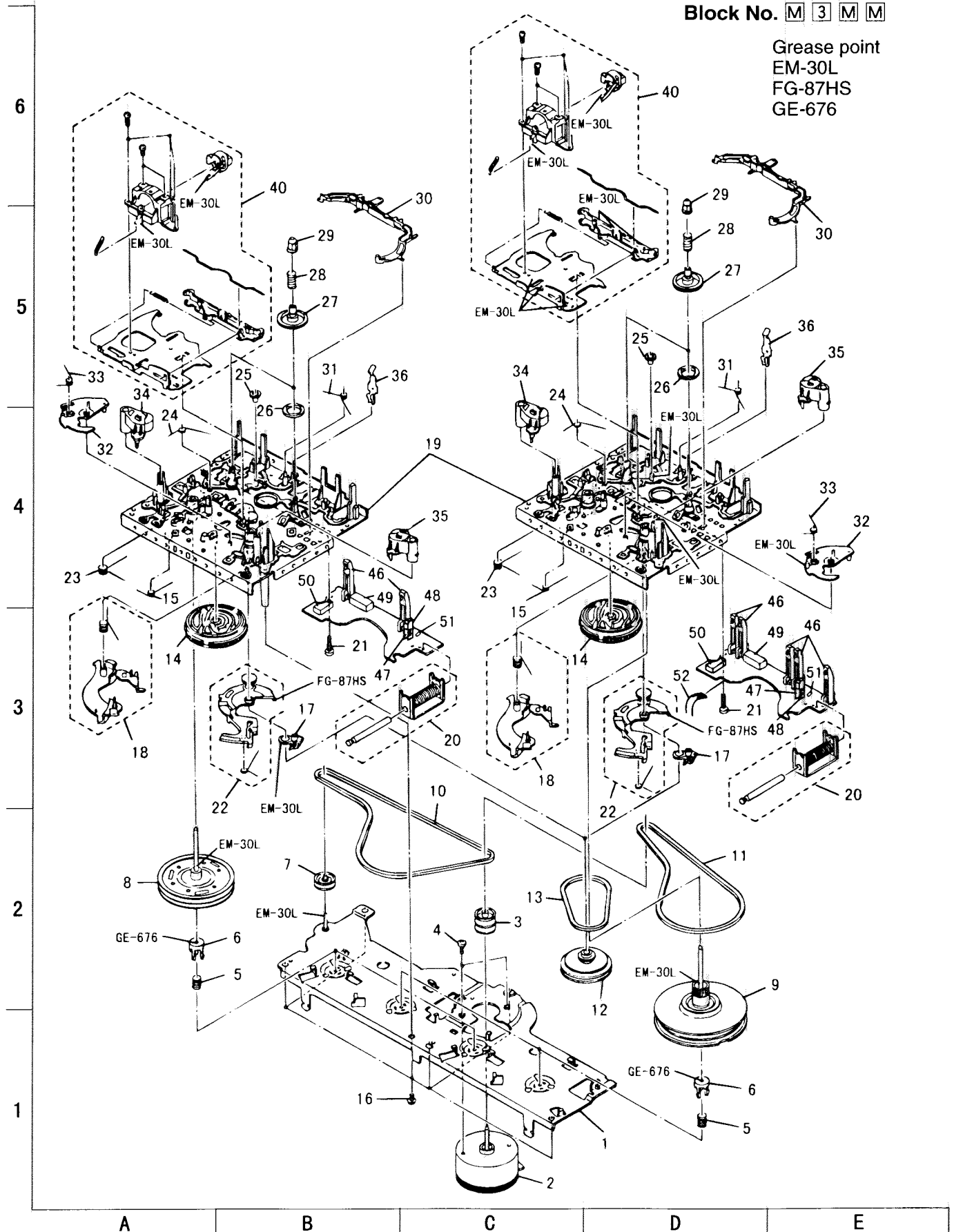
△	Item	Parts Number	Parts Name	Q'ty	Description	Area
	1	VKS1144-003	CHASSIS BASE	1		
	2	VKS3698-003	TRAY GUIDE	2		
	3	VKS5532-003	PULLEY GEAR	2		
	4	VKB3000-164	DRIVE BELT	2		
	5	VKS5505-003	GEAR B	2		
	6	VKS5506-002	GEAR C	3		
	7	VKS5507-002	CROSS GEAR U	1		
	8	VKS5508-002	CROSS GEAR L	1		
	9	VKS5510-003	SELECT LEVER	1		
	10	VKH5769-001	GEAR STUD	1		
	11	VKS5511-002	SELECT GEAR	1		
	12	VKW5155-003	COMPRESS SPRING	1		
	13	VKM3846-002	GEAR BRACKET	1		
	14	VKS5509-002MM	CYLINDER GEAR	1		
	15	MSN5D257A-SA2	DC MOTOR	2		
	16	DPSP2616Z	SCREW	2		
	18	VKM3825-00AMM	CAM GEAR ASSY	1		
	19	VKZ3172-00A	CAM SW. R ASS'Y	1		
	20	VKZ3173-00A	CAM SW. L ASS'Y	1		
	21	SPST2606Z	TAPPING SCREW	3		
	22	VKS2263-002MM	CAM R1	1		
	23	VKS2264-002MM	CAM R2	1		
	24	VKS2265-002MM	CAM GEAR L	1		
	25	WDL316050	SLIT WASHER	2		
	27	SBSF2608Z	TAPPING SCREW	16		
	28	VKS3702-00FMM	DRIVE UNIT	1		
	29	VKS2247-004	MECHA HOLDER A	1		
	30	VKL7767-00B	MECHABRACKET	1		
	31	SBSF2606Z	TAPPING SCREW	2		
	32	VKM3860-00A	MECHA HOLDER ASSY	1		
	33	VKL7802-00C	MECHA HOLDER ASSY	1		
	34	SDST2604Z	SCREW	3		
	35	VKL7810-00A	LIFTER	1		
	36	VKL7811-00A	LIFTER	1		
	37	VKL7812-00A	LIFTER	1		
	38	VKL2732-002	LIFTER BASE	1		
	39	VKM3823-001	LIFTER BRACKET	1		
	41	WDL266035-2	SLIT WASHER	1		
	43	VKS5514-002MM	LOCK LEVER	3		
	44	VKY3133-002MM	RETURN SPRING	1		
	46	VKY3134-003MM	CLICK SPRING	1		
	47	VKS2252-00EKP	TRAY ASS'Y	3		
	48	VKS2250-003	TOP BRACKET	1		
	49	VKS5515-002	S. TRAY STOPPER	1		
	50	VKW5156-004	TORSION SPRING	1		
	51	VKS3703-00FMMKP	CLAMPER ASS'Y	1		
	69	QGB2021L1-10	CONNECTOR	1		

Exploded View of Cassette Mechanism and Parts List

MODEL : NEXT-W2M

Block No. M 3 M M

Grease point
EM-30L
FG-87HS
GE-676



■ Parts List (Cassette Mechanism Ass'y)

Block No. **M3MM**

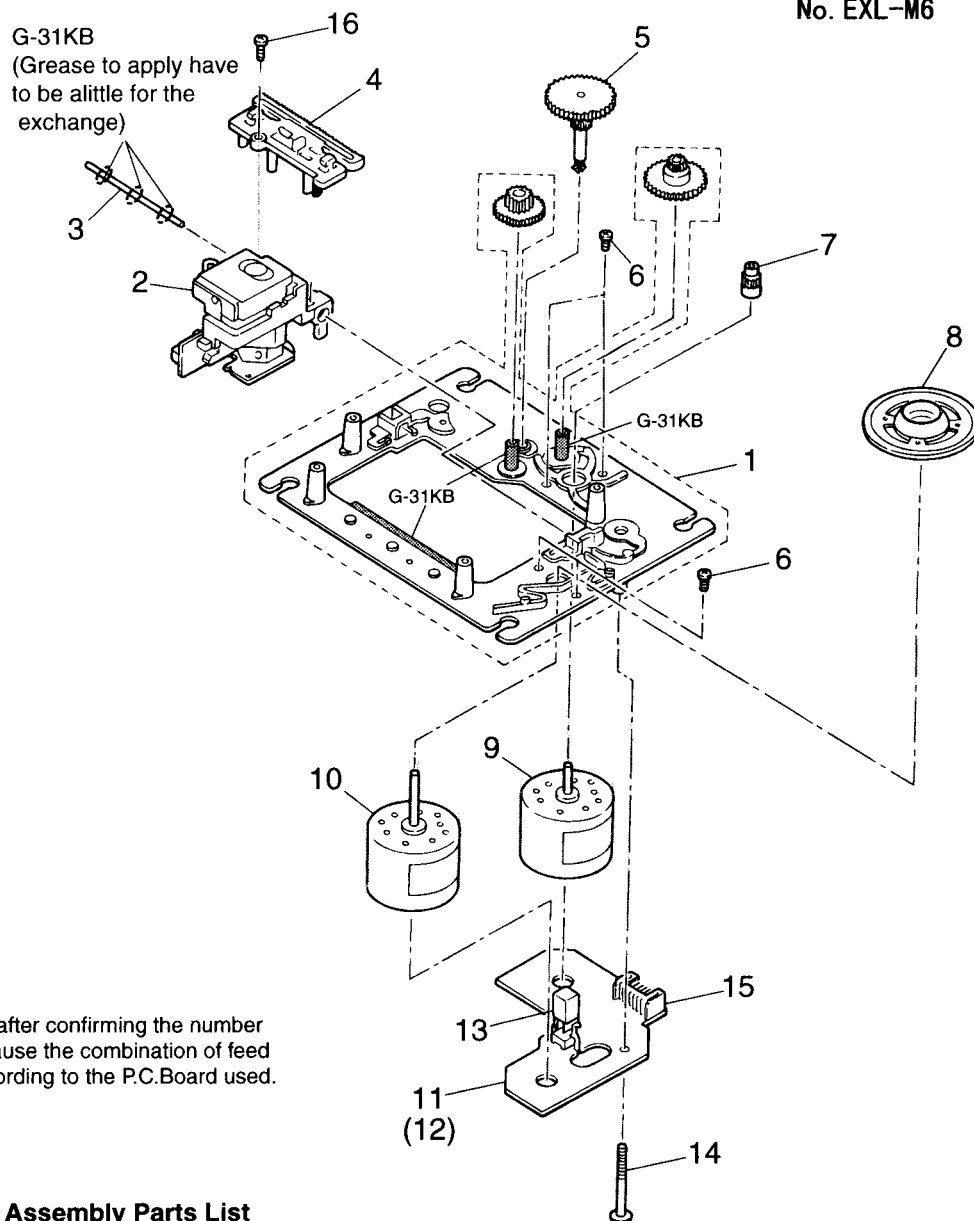
△	Item	Parts Number	Parts Name	Q'ty	Description	Area
	1	VKM3835-00A	FLYWHEEL BRACKET	1		
	2	MMI-6H2LWK	DC MOTOR	1		
	3	VKR4746-001	MOTOR PULLEY	1		
	4	SPSP2603Z	WOOD SCREW	2		
	5	VKW5177-002	SPRING	4		
	6	VKS5524-001	THRUST GUIDE	4		
	7	VKR4747-001	IDLER PULLEY	1		
	8	VKF3202-00A	F. WHEEL (L) ASSY	2		
	9	VKF3200-00A	F. WHEEL (R) ASSY	2		
	10	VKB3000-161	CAPSTAN BELT	1		
	11	VKB3000-162	CAPSTAN BELT	1		
	12	VKS5523-00C	MAIN PULLEY ASSY	2		
	13	VKB3000-167	REEL BELT	2		
	14	VKS1150-002	CONTROL CAM	2		
	15	VKW5170-002	SPRING	2		
	16	SBSF2608Z	TAPPING SCREW	6		
	17	VKS3719-002	RING	2		
	18	VKS5525-00B	TRIGGER ARM ASSY	2		
	19	VKS1151-00A	CHASSIS BASE ASSY	2		
	20	VKZ3174-00AKP	SOLENOID ASSY	2		
	21	SDST2612Z	SCREW	2		
	22	VKS3714-00B	F. F./REW. ARM	2		
	23	VKW5173-001	SPRING	2		
	24	VKW5202-002	SPRING	2		
	25	VKS5519-002	IDLER GEAR	2		
	26	VKZ4690-002	MAGNET	2		
	27	VKS3707-002	REEL GEAR	4		
	28	VKW5162-002	SPRING	4		
	29	VKS3708-002	REEL CAP	4		
	30	VKS2261-002	REEL STOPPER	2		
	31	VKW5178-001	BRAKE SPRING	2		
	32	VKS2255-001	DIRECTION LEVER	2		
	33	VKW5163-001	SPRING	2		
	34	VKP4232-00A	PINCH ROLLER	2		
	35	VKP4231-00B	PINCH ROLLER	2		
	36	VKY4670-001	CASSETTE SPRING	2		
	40	VKM3834-00A	HEAD MOUNT ASSY	1	A Mecha.	
		VKM3832-00F	HEAD MOUNT ASSY	1	B Mecha.	
	46	MXS00220MVL0	CASSETTE SWITCH	7		
	47	DN6851-HI	I. C (M)	2		
	48	VKS3630-001MM	I. C. PROTECTOR	2		
	49	QGB1214K1-08S	CONNECT TERMINAL	1	A Mecha.	
		VMC0314-P14	CONNECT TERMINAL	1	B Mecha.	
	50	QSEC001-E03	LEVER SWITCH	2		
	51	1SR139-400	SI DIODE	2		
	52	EWR34D-09C5	FLAT WIRE ASSY	1		

Exploded View of CD Mechanism Ass'y and Parts List

■ Grease Point

Block No. **M4MM**

No. EXL-M6



NOTE

Please order motor after confirming the number of the P.C.Board because the combination of feed motor is different according to the P.C.Board used.

■ CD Mechanism Assembly Parts List

	Item	Parts Number	Parts Name	Q'ty	Description	Area
	1	EPB-002PK	MECHA. BASE ASSY	1		
	2	OPTIMA-150S	OPTICAL PICK UP	1		
	3	E407782-001	CD SHAFT	1		
	4	E307746-001	CD RACK	1		
	5	EPB-003A	MECHA GEAR	1		
	6	SDSP2003N	SCREW	4		
	7	E406750-001	PINION GEAR	1		
	8	EPB309173A	TURN TABLE	1		
	9	E406784-001	FEED MOTOR	1	Use the No.11 P.C.Board	
		MDN-4RA3ETA-1	FEED MOTOR	1	Use the No.12 P.C.Board	
	10	E406783-001	SPINDLE MOTOR	1		
	11	EMW10190-001 (S)	P. C. BOARD	1		
	12	EMW10190-221 (S)	P. C. BOARD	1		
	13	ESB1100-005	LEAF SWITCH	1		
	14	E75832-001	SCREW	1		
	15	EMV5109-006B	CONN. TERMINAL	1		
	16	SDSF2006Z	SCREW	1		

Electrical Parts List

■ Electrical parts List (AMP P.C.B.)

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C001	QFV82AJ-104	M.CAPA. I.M	.10MF 5% 100V	
C002	QFV82AJ-104	M.CAPA. I.M	.10MF 5% 100V	
C004	QE20341-688	E.CAPA.	6800MF	
C005	QE20341-688	E.CAPA.	6800MF	
C011	QFV82AJ-104	M.CAPA. I.M	.10MF 5% 100V	
C012	QFV82AJ-104	M.CAPA. I.M	.10MF 5% 100V	
C013	QFV82AJ-104	M.CAPA. I.M	.10MF 5% 100V	
C014	QETM1VM-338	E CAPACITOR	3300MF 20% 35V	
C015	QETM1VM-338	E CAPACITOR	3300MF 20% 35V	
C016	QET41VM-107	E CAPACITOR	100MF 20% 35V	
C017	QETN1JM-476Z	E CAPACITOR	47MF 20% 63V	
C018	QET41HM-226	E CAPACITOR	22MF 20% 50V	
C019	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C020	QET41HM-226	E CAPACITOR	22MF 20% 50V	
C021	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C022	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
C023	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C024	QET41EM-106	E CAPACITOR	10MF 20% 25V	
C032	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C033	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
C050	QET41CM-106	E CAPACITOR	10MF 20% 16V	
C060	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C061	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C062	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C063	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C064	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C065	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C066	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C067	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C068	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C069	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C070	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C071	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C072	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C073	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C074	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
C500	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
C501	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C502	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
C503	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
C504	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
C505	QCBBIHK-181Y	C CAPACITOR	180PF 10% 50V	
C506	QCBBIHK-181Y	C CAPACITOR	180PF 10% 50V	
C507	QCS22HJ-330	C.CAPA. I.M	33PF 5% 500V	
C508	QCS22HJ-330	C.CAPA. I.M	33PF 5% 500V	
C509	QCS11HJ-5R0	C CAPACITOR	5.0PF 5% 50V	
C510	QCS11HJ-5R0	C CAPACITOR	5.0PF 5% 50V	
C511	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
C512	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
C513	QET41EM-476	E CAPACITOR	47MF 20% 25V	
C514	QET41EM-476	E CAPACITOR	47MF 20% 25V	
C515	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
C516	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
C517	QCS22HJ-470A	C.CAPA. I.M	47PF 5% 500V	
C518	QCS22HJ-470A	C.CAPA. I.M	47PF 5% 500V	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C519	QCS22HJ-470A	C.CAPA. I.M	47PF 5% 500V	
C520	QCS22HJ-470A	C.CAPA. I.M	47PF 5% 500V	
C521	QET41EM-107	E CAPACITOR	100MF 20% 25V	
C523	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C531	QETB1JM-107	E CAPACITOR	100MF 20% 63V	
C532	QETB1JM-107	E CAPACITOR	100MF 20% 63V	
C533	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C534	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C535	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C536	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C539	QCFB1HZ-223	C CAPACITOR	.022MF +80%-20% 50V	
C540	QCFB1HZ-223	C CAPACITOR	.022MF +80%-20% 50V	
C543	QET41EM-106	E CAPACITOR	10MF 20% 25V	
C544	QET41CM-476	E CAPACITOR	47MF 20% 16V	
C545	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
C799	QFLC1HJ-103ZM	M CAPACITOR	.010MF 5% 50V	
D001	1N5402M-20	DIODE		
D002	1N5402M-20	DIODE		
D003	1N5402M-20	DIODE		
D004	1N5402M-20	DIODE		
D011	30DL2FC	DIODE		
D012	30DL2FC	DIODE		
D013	30DL2FC	DIODE		
D014	30DL2FC	DIODE		
D015	30DL2FC	DIODE		
D016	30DL2FC	DIODE		
D017	1SR35-100	SI DIODE		
D018	1SR35-100	SI DIODE		
D019	MTZ30JC	ZENER DIODE		
D020	MTZ5.6JC	ZENER DIODE		
D021	MTZ5.1B	ZENER DIODE		
D022	1SS133-T2	DIODE		
D023	1SS133-T2	DIODE		
D024	1SS133-T2	DIODE		
D025	1SS133-T2	DIODE		
D027	1SR35-100	SI DIODE		
D030	MTZ9.1JC	Z DIODE 1/M		
D060	MTZ5.1B	ZENER DIODE		
D061	MTZ11JC	Z DIODE 1.M		
D062	MTZ13JC	ZENER DIODE		
D063	MTZ11JC	Z DIODE 1.M		
D064	MTZ13JC	ZENER DIODE		
D065	MTZ8.2JC	ZENER DIODE		
D066	MTZ13JC	ZENER DIODE		
D067	MTZ13JC	ZENER DIODE		
D068	MTZ13JC	ZENER DIODE		
D069	MTZ13JC	ZENER DIODE		
D070	MTZ13JC	ZENER DIODE		
D082	1SS133-T2	DIODE		
D501	SLR-342VC-T	LED 1.M		
D511	1SS133-T2	DIODE		
D512	1SS133-T2	DIODE		
D513	1SS133-T2	DIODE		
D514	1SS133-T2	DIODE		
D515	1SS133-T2	DIODE		

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D516	1SS133-T2	DIODE		
D521	MTZ12JC	ZENER DIODE		
D541	1SS133-T2	DIODE		
L501	EQL0011-R45J1	INDUCTOR		
L502	EQL0011-R45J1	INDUCTOR		
Q001	2SB1375	TRANSISTOR	X*	
Q003	KRC107M-T	D.TR.I.M		
Q004	KRC107M-T	D.TR.I.M		
Q005	KRC102M-T	D.TR.I.M		
Q040	KTC3199(GL)-T	TRANSISTOR	SPK	
Q041	KTC3199(GL)-T	TRANSISTOR	H.PHONE	
Q050	KRA107M-T	D.TR.I.M		
Q060	2SD2061/EF/	TR.		
Q061	KTC3199(GL)-T	TRANSISTOR		
Q062	KTC3199(GL)-T	TRANSISTOR		
Q063	2SD2061/EF/	TR.		
Q064	KTA1267(YG)-T	TRANSISTOR		
Q065	KTC3199(GL)-T	TRANSISTOR		
Q066	2SD2061/EF/	TR.		
Q067	KTA1267(YG)-T	TRANSISTOR		
Q068	KTC3199(GL)-T	TRANSISTOR		
Q069	2SD2061/EF/	TR.		
Q070	KTC3199(GL)-T	TRANSISTOR		
Q071	2SB1565(E,F)	TRANSISTOR		
Q072	KTA1267(YG)-T	TRANSISTOR		
Q073	KRA104M-T	D.TR.I.M		
Q074	KRC104M-T	D.TR.I.M		
Q075	KRC104M-T	D.TR.I.M		
Q076	KRA104M-T	D.TR.I.M		
Q501	2SC1845	TR.I.M		
Q502	2SC1845	TR.I.M		
Q503	2SC1845	TR.I.M		
Q504	2SC1845	TR.I.M		
Q505	2SA1038(R,S)	TR.I.M		
Q506	2SA1038(R,S)	TR.I.M		
Q507	2SC2909(S,T)	TR.I.M		
Q508	2SC2909(S,T)	TR.I.M		
Q510	2SK301(P,Q)	FET I M		
Q511	2SD636	TRANSISTOR		
Q512	2SD636	TRANSISTOR		
Q513	2SC2389S(SE/-T	TR.I.M		
Q514	2SC2389S(SE/-T	TR.I.M		
Q515	2SA1038(R,S)	TR.I.M		
Q516	2SA1038(R,S)	TR.I.M		
Q517	2SC2235(O,Y)	TR.I.M		
Q518	2SC2235(O,Y)	TR.I.M		
Q519	2SA965(Y)	TR.I.M		
Q520	2SA965(Y)	TR.I.M		
Q525	2SC1740S(R,S)	TR.I.M		
Q526	2SC1740S(R,S)	TRANSISTOR		
Q527	2SA933S(RS)	TR.I.M		
Q528	2SA933S(RS)	TRANSISTOR		
Q529	2SA1038(R,S)	TR.I.M		
Q530	2SA1038(R,S)	TR.I.M		
Q543	2SC2389S(SE/-T	TR.I.M		

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q544	KTC3199(GL)-T	TRANSISTOR		
Q545	2SA1038(R,S)	TR.I.M		
R002	QRD14CJ-4R7SX	C RESISTOR	4.7 5% 1/4W	
R003	QRD167J-332	C RESISTOR	3.3K 5% 1/4W	
R004	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R005	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R008	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R009	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R010	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R011	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R012	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R013	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R014	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R030	QRD14CJ-221SX	UNF C RES I M	220 5% 1/4W	
R040	QRG01DJ-331	UNF.OMF.RES.I.M	SPK	
R042	QRD161J-222	C RESISTOR	SPK	
R043	QRG01DJ-331	UNF.OMF.RES.I.M	H.PHONE	
R045	QRD161J-222	C RESISTOR	SPK	
R046	QRD161J-222	C RESISTOR	H.PHONE	
R047	QRD161J-222	C RESISTOR	H.PHONE	
R062	QRD161J-331	C RESISTOR	330 5% 1/4W	
R063	QRD161J-331	C RESISTOR	330 5% 1/4W	
R064	QRD161J-122	C RESISTOR	1.2K 5% 1/4W	
R065	QRD161J-561	C RESISTOR	560 5% 1/4W	
R066	QRD161J-561	C RESISTOR	560 5% 1/4W	
R067	QRD161J-122	C RESISTOR	1.2K 5% 1/4W	
R068	QRD161J-331	C RESISTOR	330 5% 1/4W	
R071	QRD161J-221	C RESISTOR	220 5% 1/4W	
R072	QRD161J-681	C RESISTOR	680 5% 1/4W	
R073	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
R076	QRD161J-221	C RESISTOR	220 5% 1/4W	
R077	QRD161J-681	C RESISTOR	680 5% 1/4W	
R078	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
R081	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R082	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R084	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R085	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R087	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R088	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R089	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R501	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R502	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R503	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R504	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R505	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
R506	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
R507	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R508	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R509	QRD14CJ-271S	UNF C RES I M	270 5% 1/4W	
R510	QRD14CJ-271S	UNF C RES I M	270 5% 1/4W	
R511	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R512	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R513	QRJ146J-122X	UNF.C.RES. I.M	1.2K 5% 1/4W	
R514	QRJ146J-122X	UNF.C.RES. I.M	1.2K 5% 1/4W	
R516	QRD161J-223	C RESISTOR	22K 5% 1/4W	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R517	QRD14CJ-101SX	UF RESISTOR	100 5% 1/4W	
R518	QRD14CJ-101SX	UF RESISTOR	100 5% 1/4W	
R519	QRD14CJ-221SX	UNF C RES 1 M	220 5% 1/4W	
R520	QRD14CJ-221SX	UNF C RES 1 M	220 5% 1/4W	
R521	QRL027J-392	OMF RESISTOR	3.9K 5% 1/2W	
R523	QRD161J-242	C RESISTOR	2.4K 5% 1/4W	
R524	QRD161J-105	C RESISTOR	1.0M 5% 1/4W	
R525	QRD161J-475	C RESISTOR	4.7M 5% 1/4W	
R531	QRD14CJ-680SX	UNF C RES 1 M	68 5% 1/4W	
R532	QRD14CJ-680SX	UNF C RES 1 M	68 5% 1/4W	
R541	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R542	QRD161J-104	C RESISTOR	100K 5% 1/4W	
C 541	QFV72AJ-474Z	TF CAPACITOR	.47MF 5% 100V	
C 542	QFV72AJ-474Z	TF CAPACITOR	.47MF 5% 100V	
CN002	EMV7163-011	CONNECTOR		
CN003	QGB2510J1-10	CONNECTOR		
CN004	VMZ0049-A04	4P CONNECTOR	TO H012-3 REG	
CN005	EMV7163-006	CONNECTOR	B011-4 SPK	
CN006	QGB2510J1-10	CONNECTOR	B230-2 INPUT	
CN007	QGB2510J1-10	CONNECTOR		
CN009	EMV5138-005	CONNECTOR	H012-5 TRANS	
CN012	EMV5163-011R	CONNECTOR		
CN013	EMV5163-010R	CONNECTOR		
CN014	EWS284-004	SKT WIRE		
CN019	EWS285-202V	SKT WIRE		
CN102	EMV5163-014R	CONNECTOR		
CN103	EMV5163-010R	CONNECTOR		
CN111	EMV7145-004Z	SOCKET I.M	H012-5 TRANS	
CN112	EMV7163-014	CONNECTOR		
CN113	QGB2510J1-10	CONNECTOR		
CN144	EMV7145-004Z	SOCKET I.M		
CN145	EMV7145-004Z	SOCKET I.M		
CN412	EWS293-0125	SOCKET WIRE	VOL OUT	
CN501	EMV7163-006	CONNECTOR		
CN511	EMV5163-006R	CONNECTOR		
CN521	EMV7163-006	CONNECTOR		
CN522	EMV7163-006	CONNECTOR		
CN531	EMV5163-006R	CONNECTOR		
CN532	EMV5163-006R	CONNECTOR		
CN915	EMV7145-003Z	SOCKET I.M		
C1018	QETN1HM-224Z	E CAPACITOR	.22MF 20% 50V	
C1111	QFM41HJ-272	M CAPACITOR	2700PF 5% 50V	
C1112	QFM41HJ-272	M CAPACITOR	2700PF 5% 50V	
C1113	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V	
C1114	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V	
D1060	MTZ2.4JB	Z DIODE I.M		
D1111	1SS133-T2	DIODE		
D1112	1SS133-T2	DIODE		
D1113	1SS133-T2	DIODE		
D1114	1SS133-T2	DIODE		
D1115	1SS133-T2	DIODE		
D1116	1SS133-T2	DIODE		
D1117	MTZ3.9JB	Z DIODE		
D1118	MTZ3.9JB	Z DIODE		
D1119	1SS133-T2	DIODE		

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D1120	1SS133-T2	DIODE		
D1121	1SS133-T2	DIODE		
D1122	1SS133-T2	DIODE		
EP001	EMZ4002-001Z	IM EARTH PLATE		
FT011	EMG7331-003Z	FUSE CLIP I.M	(F001)	
FT012	EMG7331-003Z	FUSE CLIP I.M	(F001)	
FT022	EMG7331-003Z	FUSE CLIP I.M	(F002)	
FT511	EMG7331-003Z	FUSE CLIP I.M	(F101)	
FT512	EMG7331-003Z	FUSE CLIP I.M	(F101)	
FT521	EMG7331-003Z	FUSE CLIP I.M	(F102)	
FT522	EMG7331-003Z	FUSE CLIP I.M	(F102)	
FW101	EWR34D-13LS	FLAT WIRE		
FW101	EWR34D-13LS	FLAT WIRE		
FW104	EWR38D-13LS	CONNECTOR		
Q 042	2SA1038(R,S)	TR.I.M		
Q1111	KTC3199(GL)-T	TRANSISTOR		
Q1112	KTA1267(YG)-T	TRANSISTOR		
Q1113	KTC3199(GL)-T	TRANSISTOR		
Q1114	KTA1267(YG)-T	TRANSISTOR		
Q1115	2SA965(Y)	TR.I.M		
Q1116	2SC2235(O,Y)	TR.I.M		
RY002	QSK0057-001	RELAY		
R1003	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R1004	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R1005	QRD161J-391	C RESISTOR	390 5% 1/4W	
R1006	QRD161J-391	C RESISTOR	390 5% 1/4W	
R1007	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R1008	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R1011	QRD14CJ-470SX	UNF C RES 1 M	47 5% 1/4W	
R1012	QRD14CJ-470SX	UNF C RES 1 M	47 5% 1/4W	
R1013	QRD14CJ-470SX	UNF C RES 1 M	47 5% 1/4W	
R1014	QRD14CJ-470SX	UNF C RES 1 M	47 5% 1/4W	
R1015	QRD14CJ-4R7SX	C RESISTOR	4.7 5% 1/4W	
R1016	QRD14CJ-4R7SX	C RESISTOR	4.7 5% 1/4W	
R1017	QRD14CJ-4R7SX	C RESISTOR	4.7 5% 1/4W	
R1018	QRD14CJ-4R7SX	C RESISTOR	4.7 5% 1/4W	
R1019	QRJ146J-122X	UNF.C.RES. I.M	1.2K 5% 1/4W	
R1020	QRJ146J-122X	UNF.C.RES. I.M	1.2K 5% 1/4W	
R1021	QRD14CJ-181S	UNF.C.RES. I.M	180 5% 1/4W	
R1022	QRD14CJ-181S	UNF.C.RES. I.M	180 5% 1/4W	
R1023	QRD14CJ-100SX	UNF.C.RES. I.M	10 5% 1/4W	
R1024	QRD14CJ-100SX	UNF.C.RES. I.M	10 5% 1/4W	
R1025	QRG022J-100GJ7	UNF.OMF.RES.	M/I PART	
R1026	QRG022J-100GJ7	UNF.OMF.RES.	M/I PART	
R1027	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R1028	QRD161J-823	C RESISTOR	82K 5% 1/4W	
R1031	QRD161J-621	C RESISTOR	620 5% 1/4W	
R1032	QRD161J-621	C RESISTOR	620 5% 1/4W	
R1033	QRD161J-621	C RESISTOR	620 5% 1/4W	
R1034	QRD161J-621	C RESISTOR	620 5% 1/4W	
R1035	QRD161J-331	C RESISTOR	330 5% 1/4W	
R1036	QRD161J-331	C RESISTOR	330 5% 1/4W	
R1037	QRD161J-331	C RESISTOR	330 5% 1/4W	
R1038	QRD161J-331	C RESISTOR	330 5% 1/4W	
R1041	QRZ0197-R22	EMIT RES.	1/1W	

■ Electrical parts List (Input P.C.B.)

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R1042	QRZ0197-R22	EMIT RES.	1/1W	
R1043	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R1044	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R1045	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R1046	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R1047	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R1048	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R1053	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R1054	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R1055	QRD161J-563	C RESISTOR	56K 5% 1/4W	
R1058	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R1059	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R1060	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R1061	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R1069	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R1070	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R1094	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R1095	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R1101	QRD14CJ-101SX	UF RESISTOR	100 5% 1/4W	
R1102	QRD14CJ-101SX	UF RESISTOR	100 5% 1/4W	
R1115	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R1116	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R1117	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R1118	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R1121	QRD167J-682	C RESISTOR	6.8K 5% 1/4W	
R1122	QRD167J-682	C RESISTOR	6.8K 5% 1/4W	
R1123	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R1124	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R1125	QRD161J-221	C RESISTOR	220 5% 1/4W	
R1126	QRD161J-221	C RESISTOR	220 5% 1/4W	
R1127	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R1128	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R1129	QRG01DJ-182X	OMF RESISTOR	1.8K 5% 1/1W	
R1130	QRG01DJ-182X	OMF RESISTOR	1.8K 5% 1/1W	
R1131	QRD161J-821	C RESISTOR	820 5% 1/4W	
R1132	QRD161J-821	C RESISTOR	820 5% 1/4W	
R1133	QRD14CJ-821SX	C RESISTOR	820 5% 1/4W	
R1134	QRD14CJ-821SX	C RESISTOR	820 5% 1/4W	
R1135	QRD14CJ-681SX	UNF C RES I M	680 5% 1/4W	
R1136	QRD14CJ-681SX	UNF C RES I M	680 5% 1/4W	
R1137	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R1138	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R1205	QRG01DJ-821X	OMF RESISTOR	820 5% 1/1W	
R1206	QRG01DJ-821X	OMF RESISTOR	820 5% 1/1W	
T8001	EMZ4001-002Z	TAB I.M		
T8002	EMZ4001-002Z	TAB I.M		
TH002	QAD0095-4R7Z	POSISTOR I.M		
TH109	ERT-D2WHL202S	THERMISTOR		
TH110	ERT-D2WHL202S	THERMISTOR		
TP501	VMC0041-004	CONNECTOR		
TW799	EWP201-025	TER.WIRE.ASSY		
VR501	QVPA603-501A	V.RES. I.M		
VR502	QVPA603-501A	V.RES. I.M		

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C201	QET41AM-227	E CAPACITOR	220MF 20% 10V	
C202	QCZ0205-155	ML C CAP I/M	1.5MF	
C203	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C205	QCBBIHK-221Y	C CAPACITOR	220PF 10% 50V	
C206	QCBBIHK-221Y	C CAPACITOR	220PF 10% 50V	
C211	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C231	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C232	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C305	QCBBIHK-101Y	C CAPACITOR	100PF 10% 50V	
C306	QCBBIHK-101Y	C CAPACITOR	100PF 10% 50V	
C315	EETB1HM-105E	E.CAPA. I.M		
C316	EETB1HM-105E	E.CAPA. I.M		
C317	EETB1EM-106E	E.CAPA. I.M		
C318	QET41CM-107	E CAPACITOR	100MF 20% 16V	
C319	QCF21HP-223A	C.CAPA. I.M	.022MF +80:-20%	
C320	QFLC1HJ-682ZM	M CAPACITOR	6800PF 5% 50V	
C321	QFLM1HJ-332Z	M CAPACITOR	3300PF 5% 50V	
C322	QFLM1HJ-332Z	M CAPACITOR	3300PF 5% 50V	
C323	QFLC1HJ-183ZM	M CAPACITOR	.018MF 5% 50V	
C324	QFP31HG-472	P.P. CAPA. I.M	4700PF 2% 50V	
C325	QCBBIHK-101Y	C CAPACITOR	100PF 10% 50V	
C326	QCBBIHK-101Y	C CAPACITOR	100PF 10% 50V	
C327	QCBBIHK-561Y	C CAPACITOR	560PF 10% 50V	
C328	QCFB1H2-223	C CAPACITOR	.022MF +80:-20% 50V	
C335	QCF21HP-472	C CAPACITOR	4700PF +80:-20%	
C336	QCF21HP-472	C CAPACITOR	4700PF +80:-20%	
C339	EETB1CM-476	E.CAPA. I.M		
C340	EETB1CM-476	E.CAPA. I.M		
C341	QFLM1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
C342	QFLM1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
C343	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C344	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C345	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C346	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C347	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C348	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C351	QCBBIHK-821Y	C CAPACITOR	820PF 10% 50V	
C352	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
C353	QET41HM-476	E CAPACITOR	47MF 20% 50V	
C365	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C366	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C367	QFLM1HJ-822Z	M CAPACITOR	8200PF 5% 50V	
C368	QFLM1HJ-822Z	M CAPACITOR	8200PF 5% 50V	
C369	EETB1AM-107E	E.CAPA. I.M		
C370	EETB1AM-107E	E.CAPA. I.M		
C371	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C372	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C373	EETB1CM-476	E.CAPA. I.M		
C374	QETC1EM-476ZM	E.CAPA. I.M	47MF 20% 25V	
C375	QCBBIHK-101Y	C CAPACITOR	100PF 10% 50V	
C376	QCBBIHK-101Y	C CAPACITOR	100PF 10% 50V	
C377	QCBBIHK-122Y	C CAPACITOR	1200PF 20% 16V	
C378	QCBBIHK-122Y	C CAPACITOR	1200PF 20% 16V	
C379	QCBBIHK-331Y	C CAPACITOR	330PF 10% 50V	
C380	QCBBIHK-331Y	C CAPACITOR	330PF 10% 50V	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C381	EETB1CM-476	E.CAPA. I.M		
C385	QFLM1HJ-822Z	M CAPACITOR	8200PF 5% 50V	
C386	QFLM1HJ-822Z	M CAPACITOR	8200PF 5% 50V	
C387	EETB1AM-107E	E.CAPA. I.M		
C388	EETB1AM-107E	E.CAPA. I.M		
C389	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C390	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C391	EETB1CM-476	E.CAPA. I.M		
C392	EETB1CM-476	E.CAPA. I.M		
C393	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
C394	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
C395	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
C396	QCXB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
C397	QCBB1HK-391Y	C CAP IM	390PF 10% 50V	
C398	QCBB1HK-391Y	C CAP IM	390PF 10% 50V	
C401	QFLM1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
C402	QFLM1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
C403	QFLM1HJ-102Z	M CAPACITOR	1000PF 5% 50V	
C404	QFLM1HJ-102Z	M CAPACITOR	1000PF 5% 50V	
C405	EETB1EM-106E	E.CAPA. I.M		
C406	EETB1EM-106E	E.CAPA. I.M		
C407	EETB1EM-106E	E.CAPA. I.M		
C408	EETB1EM-106E	E.CAPA. I.M		
C409	QFLM1HJ-392Z	M CAPACITOR	TUNER	
C410	QFLM1HJ-392Z	M CAPACITOR	TUNER	
C411	EETB1EM-106E	E.CAPA. I.M		
C412	EETB1EM-106E	E.CAPA. I.M		
C415	EETB1EM-106E	E.CAPA. I.M		
C416	EETB1EM-106E	E.CAPA. I.M		
C417	EETB1EM-106E	E.CAPA. I.M		
C418	EETB1EM-106E	E.CAPA. I.M		
C419	EETB1EM-106E	E.CAPA. I.M		
C420	QETC1EM-476ZM	E.CAPA. I.M	47MF 20% 25V	
C421	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C422	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C423	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C424	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C425	QFLC1HJ-183ZM	M CAPACITOR	.018MF 5% 50V	
C426	QFLC1HJ-183ZM	M CAPACITOR	.018MF 5% 50V	
C427	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
C428	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
C429	QFLM1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
C430	QFLM1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
C431	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C432	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C433	EETB1HM-105E	E.CAPA. I.M		
C434	EETB1HM-105E	E.CAPA. I.M		
C435	EETB1EM-106E	E.CAPA. I.M		
C436	EETB1EM-106E	E.CAPA. I.M		
C443	EETB1EM-106E	E.CAPA. I.M		
C444	EETB1EM-106E	E.CAPA. I.M		
C445	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
C446	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
C447	EETB1EM-106E	E.CAPA. I.M		
C448	EETB1EM-106E	E.CAPA. I.M		

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C457	EETB1EM-106E	E.CAPA. I.M		
C458	EETB1EM-106E	E.CAPA. I.M		
C459	QFLM1HJ-333Z	M CAPACITOR	.033MF 5% 50V	
C460	EETB1HM-475E	E.CAPA. I.M		
C461	QETB1HM-474N	E.CAPA. I.M	.47MF 20% 50V	
C462	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
C463	QETB1HM-474N	E.CAPA. I.M	.47MF 20% 50V	
C464	QET41AM-227	E CAPACITOR	220MF 20% 10V	
C465	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
C466	QFLC1HJ-473ZM	M CAPACITOR	.047MF 5% 50V	
C467	EETB1HM-105E	E.CAPA. I.M		
C468	QETC1EM-476ZM	E.CAPA. I.M	47MF 20% 25V	
C469	EETB1EM-106E	E.CAPA. I.M		
C470	EETB1EM-106E	E.CAPA. I.M		
C471	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
C472	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
C473	QETC1EM-476ZM	E.CAPA. I.M	47MF 20% 25V	
C474	QETC1EM-476ZM	E.CAPA. I.M	47MF 20% 25V	
C475	EETB1EM-106E	E.CAPA. I.M		
C476	EETB1EM-106E	E.CAPA. I.M		
C477	QETC1HM-106ZM	E.CAPA. I.M	10MF 20% 50V	
C485	QET41AM-107	AL E.CAPACITOR	100MF 20% 10V	
C486	QET41AM-107	E CAPACITOR	100MF 20% 10V	
C489	EETB1CM-476	E.CAPA. I.M		
C490	QET41CM-476		47MF 20% 16V	
C493	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C494	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C495	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C496	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
D201	1SS133-T2	DIODE		
D202	1SS133-T2	DIODE		
D203	1SS133-T2	DIODE		
D290	1SS133-T2	DIODE		
D303	1SS133-T2	DIODE		
D305	MA4075(M)	ZENER DIODE		
D306	MA4075(M)	ZENER DIODE		
D307	1SS133-T2	DIODE		
D308	1SS133-T2	DIODE		
D996	1SS133-T2	DIODE		
D999	1SS133-T2	DIODE		
K301	ENZ8101-007	F.BEADS I.M		
K302	ENZ8101-007	F.BEADS I.M		
K303	ENZ8101-007	F.BEADS I.M		
K321	ENZ8101-007	F.BEADS I.M		
K392	ENZ8101-007	F.BEADS I.M		
L301	ENZ6002-012J2	OSC COIL		
L305	EQL2106-223TJ2	INDUCTOR I.M		
L306	EQL2106-223TJ2	INDUCTOR I.M		
Q201	KRC107M-T	D.TR.I.M		
Q321	2SD2144S(VW)	TRANSISTOR		
Q322	2SC3576-JVC-T	TRANSISTOR		
Q323	KRA107M-T	D.TR.I.M		
Q324	2SD2144S(VW)	TRANSISTOR		
Q325	2SC3576-JVC-T	TRANSISTOR		
Q326	KTC3199(GL)-T	TRANSISTOR		

PB MUTE

CROM ON/OFF

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q327	KTC3199(GL)-T	TRANSISTOR	BIAS ON/OFF	
Q328	KTC3199(GL)-T	TRANSISTOR	OSC BLOCK	
Q329	KTC3199(GL)-T	TRANSISTOR	OSC BLOCK	
Q330	KTC3199(GL)-T	TRANSISTOR		
Q331	KRA104M-T	D.TR.I.M		
Q341	KRC107M-T	D.TR.I.M		
Q342	KRC107M-T	D.TR.I.M		
Q343	KRC107M-T	D.TR.I.M		
Q401	2SC3576-JVC-T	TRANSISTOR		
Q402	2SC3576-JVC-T	TRANSISTOR		
Q403	KRA102M-T	D.TR.I.M		
Q481	2SC3576-JVC-T	TRANSISTOR		
Q482	2SC3576-JVC-T	TRANSISTOR		
Q483	KRA102M-T	D.TR.I.M		
Q491	KRC102M-T	D.TR.I.M		
Q492	2SB1375	TRANSISTOR		
R202	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R203	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R204	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R205	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R206	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R207	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R208	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R209	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R211	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R213	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R214	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R217	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R218	QRD161J-221	C RESISTOR	220 5% 1/4W	
R231	QRD161J-183Y	C RESISTOR	18K 5% 1/4W	
R232	QRD161J-183Y	C RESISTOR	18K 5% 1/4W	
R233	QRD161J-153	C RESISTOR	REC IN	
R234	QRD161J-153	C RESISTOR	REC IN	
R271	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R272	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R280	QRD161J-221	C RESISTOR	220 5% 1/4W	
R281	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R282	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R283	QRD161J-100	C RESISTOR	10 5% 1/4W	
R284	QRD161J-100	C RESISTOR	10 5% 1/4W	
R285	QRD161J-393	C RESISTOR	39K 5% 1/4W	
R286	QRD161J-393	C RESISTOR	39K 5% 1/4W	
R287	QRD14CJ-6R8SX	UNF C RES IIM	6.8 5% 1/4W	
R288	QRD14CJ-100SX	UNF C.RES. I.M	10 5% 1/4W	
R290	QRD167J-332	C RESISTOR	3.3K 5% 1/4W	
R292	QRD161J-181	C RESISTOR	180 5% 1/4W	
R293	QRD167J-511	C.RES. I.M	510 5% 1/4W	
R294	QRD161J-561	C RESISTOR	560 5% 1/4W	
R296	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R297	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R298	QRD161J-561	C RESISTOR	560 5% 1/4W	
R335	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R336	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R337	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R338	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R339	QRD161J-393	C RESISTOR	39K 5% 1/4W	
R340	QRD161J-393	C RESISTOR	39K 5% 1/4W	
R341	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R342	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R343	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R344	QRD161J-563	C RESISTOR	56K 5% 1/4W	
R345	QRD161J-184	C RESISTOR	180K 5% 1/4W	
R346	QRD161J-105	C RESISTOR	1.0M 5% 1/4W	
R347	QRD161J-221	C RESISTOR	220 5% 1/4W	
R348	QRD161J-221	C RESISTOR	220 5% 1/4W	
R349	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R351	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R352	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R353	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R354	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R355	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R356	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R357	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R358	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R359	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R360	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R361	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R362	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R365	QRD161J-470	C RESISTOR	47 5% 1/4W	
R366	QRD161J-470	C RESISTOR	47 5% 1/4W	
R367	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R368	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R371	QRD161J-163	C.RES. I.M	16K 5% 1/4W	
R372	QRD161J-163	C.RES. I.M	16K 5% 1/4W	
R377	QRD161J-221	C RESISTOR	220 5% 1/4W	
R378	QRD161J-221	C RESISTOR	220 5% 1/4W	
R381	QRD161J-221	C RESISTOR	220 5% 1/4W	
R382	QRD161J-221	C RESISTOR	220 5% 1/4W	
R383	QRD161J-470	C RESISTOR	47 5% 1/4W	
R384	QRD161J-470	C RESISTOR	47 5% 1/4W	
R385	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R386	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R391	QRD161J-163	C.RES. I.M	16K 5% 1/4W	
R392	QRD161J-163	C.RES. I.M	16K 5% 1/4W	
R401	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R402	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R403	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R404	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R405	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R406	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R407	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R408	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R411	QRD167J-562	C RESISTOR	TUNER	
R412	QRD167J-562	C RESISTOR	TUNER	
R417	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R418	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R419	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R420	QRD161J-272	C RESISTOR	2.7K 5% 1/4W	
R421	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R422	QRD161J-104	C RESISTOR	100K 5% 1/4W	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R431	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R432	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R433	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R434	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	
R435	QRD161J-392	C RESISTOR	4.7K 5% 1/4W	
R436	QRD161J-392	C RESISTOR	3.9K 5% 1/4W	
R437	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R438	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R439	QRD161J-432	C RESISTOR	4.3K 5% 1/4W	
R440	QRD161J-432	C RESISTOR	4.3K 5% 1/4W	
R441	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R442	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R450	QRD161J-224	C RESISTOR	220K 5% 1/4W	
R451	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R452	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R453	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R454	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R455	QRD161J-132	C RESISTOR	10K 5% 1/4W	
R456	QRD161J-132	C.RES. I.M	1.3K 5% 1/4W	
R457	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R458	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R459	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R460	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R461	QRD161J-221	C RESISTOR	220 5% 1/4W	
R462	QRD161J-221	C RESISTOR	220 5% 1/4W	
R463	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R464	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R465	QRD161J-472	C RESISTOR	1.0K 5% 1/4W	
R469	QRD161J-221	C RESISTOR	220 5% 1/4W	
R470	QRD161J-221	C RESISTOR	220 5% 1/4W	
R471	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R472	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R473	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R485	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R486	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R490	QRD161J-221	C RESISTOR	220 5% 1/4W	
R491	QRD161J-471	C RESISTOR	470 5% 1/4W	
R492	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R493	QRD167J-113	C RESISTOR	11K 5% 1/4W	
R494	QRD167J-113	C RESISTOR	11K 5% 1/4W	
R497	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R498	QRD161J-104	C RESISTOR	100K 5% 1/4W	
S490	QSW0509-001	SLIDE SW.		
X201	ECX0060-000EM	RESONATOR I.M		
C 413	QCB81HK-471Y	C CAPACITOR	470PF 10% 50V	
C 414	QCB81HK-471Y	C CAPACITOR	470PF 10% 50V	
C 481	QCB81HK-221Y	C CAPACITOR	VCR REC	
C 482	QCB81HK-221Y	C CAPACITOR	VCR REC	
C 483	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C 484	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
CN016	EMV5163-010R	CONNECTOR		
CN017	EMV5163-010R	CONNECTOR		
CN131	EMV5109-012A	12P PLUG ASSY		
CN311	EMV5172-014B	CONNECTOR	TO B248-3	
CN312	EMV5172-014B	CONNECTOR	TO B248-3	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN322	VMC0332-016V	FFC/FPC CONNE		
CN331	EMV7155-106R	FFC SOCKET	B HEAD	
CN332	EMV7155-106R	FFC SOCKET	A HEAD	
CN402	VMC0332-017V	VMC0332-017	TO C136-1	
CN411	VMC0163-033	CONNECTOR	TO B248-1	
CN412	VMC0332-017V	VMC0332-017	TO C136-2	
CN613	VMC0332-007V	CONNECTOR	TO N488A	
CN614	VMC0332-011V	CONNECTOR		
CN701	VMC0075-003	3P PLUG ASSY	TO B248-5	
CN811	VMC0332-010V	CONNECTOR		
D 481	1SS133-T2	DIODE		
D 482	1SS133-T2	DIODE		
EP003	E409182-001SM	GRAND TERMINAL		
IC301	MN173222JAAX1	IC		
IC302	NJM4580L	IC		
IC303	NJM4580L	IC		
IC304	BA3126N	IC	B PB/ERC SEL.	
IC305	HA12206NT	IC		
IC401	TDA7439	IC	MAIN VOL	
IC402	BA15218	IC	DIP 20P	
IC405	BA15218	IC		
IC406	LA2650	IC		
IC407	BA15218	IC		
J 401	QNN0132-001	PIN JACK		
PP002	VMZ0015-005	POST PIN		
R 409	QRD167J-332	C RESISTOR	TUNER	
R 410	QRD167J-332	C RESISTOR	TUNER	
R 413	QRD161J-102	C RESISTOR	VCR	
R 414	QRD161J-102	C RESISTOR	VCR	
R 415	QRD161J-823	C RESISTOR	82K 5% 1/4W	
R 416	QRD161J-823	C RESISTOR	82K 5% 1/4W	
R 481	QRD161J-222	C RESISTOR	VCR REC	
R 482	QRD161J-222	C RESISTOR	VCR REC	
R 483	QRD161J-221	C RESISTOR	VCR REC	
R 484	QRD161J-221	C RESISTOR	VCR REC	
SP301	VYH7653-001	IC HOLDER		
VR231	QVPA603-503A	SEMI V RESISTOR	REC LEVEL	
VR232	QVPA603-503A	SEMI V RESISTOR	REC LEVEL	
VR301	QVPA603-102AZA	V RESISTOR	1KHZ LEVEL	
VR302	QVPA603-102AZA	V RESISTOR	1KHZ LEVEL	
VR303	QVPA603-102AZA	V RESISTOR	1KHZ LEVEL	
VR304	QVPA603-102AZA	V RESISTOR	1KHZ LEVEL	
VR305	QVPA603-104A	SEMI V RESISTOR	F.RESP ADJ	
VR306	QVPA603-104A	SEMI V RESISTOR	F.RESP ADJ	
VR307	QVPA603-104A	SEMI V RESISTOR	F.RESP ADJ	
VR308	QVPA603-104A	SEMI V RESISTOR	F.RESP ADJ	
VR309	QVPA603-104A	SEMI V RESISTOR	BIAS ADJ	
VR310	QVPA603-104A	SEMI V RESISTOR	BIAS ADJ	
WR	QWE357-12RR	WIRE		

■ Electrical parts List (Front P.C.B.)

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C051	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
C052	QFLC1HJ-223ZM	M CAPACITOR	.022MF 5% 50V	
C053	QCB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C054	QCB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C055	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
C056	QFLC1HJ-393ZM	M CAPACITOR	.039MF 5% 50V	
C233	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C234	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C235	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C236	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C237	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C238	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C239	QETC1HM-225ZM	E.CAPA. I.M	2.2MF 20% 50V	
C240	QCB1HK-221Y	C CAPACITOR	220PF 10% 50V	
C241	QCB1HK-221Y	C CAPACITOR	220PF 10% 50V	
C242	EETB1HM-475E	E.CAPA. I.M		
C243	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
C244	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
C245	QCB1HK-561Y	C CAPACITOR	560PF 10% 50V	
C246	QCB1HK-561Y	C CAPACITOR	560PF 10% 50V	
C247	EETB1CM-476	E.CAPA. I.M		
C251	QET41CM-107	E CAPACITOR	100MF 20% 16V	
C801	QCB1HK-471Y	C CAPACITOR	470PF 10% 50V	
C802	QCB1HK-471Y	C CAPACITOR	470PF 10% 50V	
C901	EETB1AM-107E	E.CAPA. I.M		
C902	QCZ0205-155	ML C CAP I/M	1.5MF	
C903	QEAD0HZ-479A	GOLD CAPACITOR	47000MF	
C904	QCFB1HZ-223	C CAPACITOR	.022MF +80% -20% 50V	
C905	QER40JM-107	E CAPACITOR	100MF 20% 6.3V	
C910	QCT26CH-330	C.CAPA. I.M	33PF 5% 50V	
C911	QEAD0HZ-479A	GOLD CAPACITOR	47000MF	
C912	EETB1AM-476E	E.CAPA. I.M		
C914	QCZ0205-155	ML C CAP I/M	1.5MF	
C915	QCVB1CN-103Y	C CAPACITOR	RESET	
C916	QER61HM-474Z	E CAPACITOR	.47MF 20% 50V	
D041	1SS133-T2	DIODE		
D231	1SR35-100	SI DIODE		
D232	SLR-342MCA47	LED I.M	D237	
D801	MTZ2.4JB	Z.DIODE I.M		
D802	SLR-342VC-T	LED I.M	STANDBY	
D803	SLR-342VC-T	LED I.M	BASS	
D804	SLR-342VC-T	LED I.M	REC	
D805	SLR-342VC-T	LED I.M	DECK A	
D806	SLR-342VC-T	LED I.M	DECK B	
D901	1SS119-02	SI DIODE		
D902	1SS133-T2	DIODE		
D904	SLR-342DC-T	LED I.M	X AUTO P.OFF	
D905	SLR-342MCA47	LED I.M	CD	
D906	SLR-342MCA47	LED I.M	CD	
D907	SLR-342MCA47	LED I.M	TUNER	
D908	SLR-342MCA47	LED I.M	TUNER	
D909	SLR-342MCA47	LED I.M	TAPE	
D910	SLR-342MCA47	LED I.M	TAPE	
D911	SLR-342MCA47	LED I.M	VCR	
D912	SLR-342MCA47	LED I.M	VCR	

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D917	SLR-342MCA47	LED I.M		
D918	SLR-342MCA47	LED I.M		
D919	SLR-342MCA47	LED I.M		
D920	1SS133-T2	DIODE		
D921	1SS133-T2	DIODE		
D922	1SS133-T2	DIODE	DCS	
D923	MTZ5.6JC	ZENER DIODE	TU RESET	
D924	MTZ5.6JC	ZENER DIODE	TU RESET	
D925	MTZ5.6JC	ZENER DIODE	TU INH	
D931	1SS133-T2	DIODE	VX,U	EE
D932	1SS133-T2	DIODE	J,C	EE
D933	1SS133-T2	DIODE	J,C,A,U	EE
D934	1SS133-T2	DIODE	ALL	
D936	1SS133-T2	DIODE	RDS	
J081	EMB10TV-401AJ3	SPK TERMINAL		
J801	QMS3R80-EE0S	JACK	H.PHONE	
K801	ENZ8101-007	F.BEADS I.M		
Q231	2SA934(Q,R)	TR I.M	A MECHA	
Q232	DTC123YS	DEGI TR	A MECHA	
Q233	2SA934(Q,R)	TR I.M	B MECHA	
Q234	DTC123YS	DEGI TR	B MECHA	
Q235	2SA933S(RS)	TR.I.M		
Q236	KRC107M-T	D.TR.I.M		
Q237	KRC107M-T	D.TR.I.M		
Q901	KRC102M-T	D.TR.I.M	FUNCTION DRIVER	
Q902	KRC102M-T	D.TR.I.M	FUNCTION DRIVER	
Q903	KRC102M-T	D.TR.I.M	FUNCTION DRIVER	
Q904	KRC102M-T	D.TR.I.M	FUNCTION DRIVER	
Q921	KRC107M-T	D.TR.I.M	TU RESET	
Q922	2SC3402A	TRANSISTOR	FL DRIVER	
Q923	2SC3402A	TRANSISTOR	FL DRIVER	
Q924	2SC3402A	TRANSISTOR	FL DRIVER	
Q925	2SC3402A	TRANSISTOR	FL DRIVER	
R051	QRD14CJ-4R7SX	C RESISTOR	4.7 5% 1/4W	
R052	QRD14CJ-4R7SX	C RESISTOR	4.7 5% 1/4W	
R235	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R236	QRD161J-153	C RESISTOR	15K 5% 1/4W	
R237	QRD161J-681	C RESISTOR	680 5% 1/4W	
R238	QRD161J-681	C RESISTOR	680 5% 1/4W	
R239	QRD14CJ-220S	C RESISTOR	22 5% 1/4W	
R240	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R241	QRD141J-183Y	C RESISTOR	18K 5% 1/4W	
R242	QRD141J-183Y	C RESISTOR	18K 5% 1/4W	
R245	QRD167J-751	C RESISTOR	750 5% 1/4W	
R246	QRD167J-751	C RESISTOR	750 5% 1/4W	
R247	QRD161J-471	C RESISTOR	470 5% 1/4W	
R248	QRX022J-3R3A	MF RESISTOR	3.3 5% 1/2W	
R249	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R250	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R251	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R255	QRD167J-751	C RESISTOR	750 5% 1/4W	
R256	QRD167J-751	C RESISTOR	750 5% 1/4W	
R257	QRD161J-471	C RESISTOR	470 5% 1/4W	
R258	QRX022J-3R3A	MF RESISTOR	3.3 5% 1/2W	
R259	QRD161J-224	C RESISTOR	220K 5% 1/4W	

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R260	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R261	QRD161J-473	C RESISTOR	47K 5% 1/4W	
R262	QRD161J-273	C RESISTOR	27K 5% 1/4W	
R263	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R264	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R265	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R266	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R267	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R268	QRD161J-221	C RESISTOR	A MECHA	
R269	QRD161J-221	C RESISTOR	B MECHA	
R801	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R802	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R803	QRD161J-561	C RESISTOR	560 5% 1/4W	
R804	QRD167J-751	C RESISTOR	750 5% 1/4W	
R805	QRD161J-132	C.RES. 1.M	1.3K 5% 1/4W	
R806	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R807	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R808	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R809	QRD161J-561	C RESISTOR	560 5% 1/4W	
R810	QRD167J-751	C RESISTOR	750 5% 1/4W	
R811	QRD161J-132	C.RES. 1.M	1.3K 5% 1/4W	
R812	QRD161J-331	C RESISTOR	STANDBY	
R813	QRD161J-331	C RESISTOR	BASS	
R814	QRD161J-331	C RESISTOR	REC	
R815	QRD161J-331	C RESISTOR	DECK A	
R816	QRD161J-331	C RESISTOR	DECK B	
R817	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R818	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R901	QRD161J-105	C RESISTOR	1.0M 5% 1/4W	
R902	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R903	QRD161J-220	C RESISTOR	22 5% 1/4W	
R904	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R905	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R906	QRD161J-221	C RESISTOR	220 5% 1/4W	
R907	QRD161J-221	C RESISTOR	220 5% 1/4W	
R909	QRD161J-221	C RESISTOR	220 5% 1/4W	
R912	QRD161J-221	C RESISTOR	220 5% 1/4W	
R913	QRD161J-221	C RESISTOR	220 5% 1/4W	
R914	QRD161J-221	C RESISTOR	220 5% 1/4W	
R918	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R919	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R920	QRD161J-561	C RESISTOR	560 5% 1/4W	
R921	QRD167J-751	C RESISTOR	750 5% 1/4W	
R922	QRD161J-132	C.RES. 1.M	1.3K 5% 1/4W	
R923	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R924	QRD161J-512	C RESISTOR	5.1K 5% 1/4W	
R925	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R926	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R927	QRD161J-561	C RESISTOR	560 5% 1/4W	
R928	QRD167J-751	C RESISTOR	750 5% 1/4W	
R929	QRD161J-132	C.RES. 1.M	1.3K 5% 1/4W	
R930	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R931	QRD161J-512	C RESISTOR	5.1K 5% 1/4W	
R932	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R933	QRD161J-431Y	C RESISTOR	430 5% 1/4W	

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R934	QRD161J-561	C RESISTOR	560 5% 1/4W	
R935	QRD167J-751	C RESISTOR	750 5% 1/4W	
R936	QRD161J-132	C.RES. 1.M	1.3K 5% 1/4W	
R937	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R938	QRD161J-512	C RESISTOR	5.1K 5% 1/4W	
R939	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R940	QRD161J-431Y	C RESISTOR	430 5% 1/4W	
R941	QRD161J-561	C RESISTOR	560 5% 1/4W	
R942	QRD167J-751	C RESISTOR	750 5% 1/4W	
R943	QRD161J-132	C.RES. 1.M	1.3K 5% 1/4W	
R944	QRD161J-181	C RESISTOR	AUTO P.OFF	
R945	QRD161J-181	C RESISTOR	CD	
R946	QRD161J-181	C RESISTOR	CD	
R947	QRD161J-181	C RESISTOR	TUNER	
R948	QRD161J-181	C RESISTOR	TUNER	
R949	QRD161J-181	C RESISTOR	TAPE	
R950	QRD161J-181	C RESISTOR	TAPE	
R951	QRD161J-181	C RESISTOR	VCR	
R952	QRD161J-181	C RESISTOR	VCR	
R957	QRD161J-181	C RESISTOR	180 5% 1/4W	
R958	QRD161J-181	C RESISTOR	180 5% 1/4W	
R959	QRD161J-181	C RESISTOR	180 5% 1/4W	
R960	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R961	QRD161J-221	C RESISTOR	220 5% 1/4W	
R962	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R963	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R964	QRD161J-221	C RESISTOR	220 5% 1/4W	
R965	QRD161J-221	C RESISTOR	220 5% 1/4W	
R966	QRD161J-221	C RESISTOR	220 5% 1/4W	
R967	QRD161J-221	C RESISTOR	220 5% 1/4W	
R968	QRD161J-221	C RESISTOR	220 5% 1/4W	
R970	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R971	QRD161J-472	C RESISTOR	P-DN	
R972	QRD161J-472	C RESISTOR	P-DN	
R973	QRD161J-472	C RESISTOR	P-DN	
R974	QRD161J-472	C RESISTOR	P-DN	
R975	QRD161J-473	C RESISTOR	-BP	
R976	QRD161J-104	C RESISTOR	FL DRIVER	
R977	QRD161J-104	C RESISTOR	FL DRIVER	
R978	QRD161J-104	C RESISTOR	FL DRIVER	
R979	QRD161J-104	C RESISTOR	FL DRIVER	
R987	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R988	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R989	QRD161J-103	C RESISTOR	10K 5% 1/4W	
R991	QRD161J-104	C RESISTOR	RDS	
R993	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R994	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R995	QRD161J-104	C RESISTOR	SA BASS	
R996	QRD161J-151	C RESISTOR	150 5% 1/4W	
S801	ESP0001-023M	PUSH SW 1.M	IN5	
S802	ESP0001-023M	PUSH SW 1.M	IN5	
S803	ESP0001-023M	PUSH SW 1.M	IN5	
S804	ESP0001-023M	PUSH SW 1.M	IN5	
S805	ESP0001-023M	PUSH SW 1.M	IN5	
S806	ESP0001-023M	PUSH SW 1.M	IN5	

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S807	ESP0001-023M	PUSH SW I.M	IN5	
	S808	ESP0001-023M	PUSH SW I.M	IN6	
	S809	ESP0001-023M	PUSH SW I.M	IN6	
	S810	ESP0001-023M	PUSH SW I.M	IN6	
	S811	ESP0001-023M	PUSH SW I.M	IN6	
	S812	ESP0001-023M	PUSH SW I.M	IN6	
	S813	ESP0001-023M	PUSH SW I.M	IN6	
	S901	ESP0001-023M	PUSH SW I.M	IN1	
	S902	ESP0001-023M	PUSH SW I.M	IN1	
	S903	ESP0001-023M	PUSH SW I.M	IN1	
	S904	ESP0001-023M	PUSH SW I.M	IN1	
	S905	ESP0001-023M	PUSH SW I.M	IN1	
	S906	ESP0001-023M	PUSH SW I.M	IN1	
	S907	ESP0001-023M	PUSH SW I.M	IN1	
	S908	ESP0001-023M	PUSH SW I.M	IN1	
	S909	ESP0001-023M	PUSH SW I.M	IN2	
	S910	ESP0001-023M	PUSH SW I.M	IN2	
	S911	ESP0001-023M	PUSH SW I.M	IN2	
	S912	ESP0001-023M	PUSH SW I.M	IN2	
	S913	ESP0001-023M	PUSH SW I.M	IN2	
	S914	ESP0001-023M	PUSH SW I.M	IN2	
	S915	ESP0001-023M	PUSH SW I.M	IN2	
	S916	ESP0001-023M	PUSH SW I.M	IN2	
	S917	ESP0001-023M	PUSH SW I.M	IN3	
	S918	ESP0001-023M	PUSH SW I.M	IN3	
	S919	ESP0001-023M	PUSH SW I.M	IN3	
	S920	ESP0001-023M	PUSH SW I.M	IN3	
	S921	ESP0001-023M	PUSH SW I.M	IN3	
	S922	ESP0001-023M	PUSH SW I.M	IN3	
	S923	ESP0001-023M	PUSH SW I.M	IN3	
	S924	ESP0001-023M	PUSH SW I.M	IN3	
	S925	ESP0001-023M	PUSH SW I.M	DEMO	
	S926	ESP0001-023M	PUSH SW I.M	AUTO P.OFF	
	S927	ESP0001-023M	PUSH SW I.M	RDS	
	S928	ESP0001-023M	PUSH SW I.M	RDS	
	S929	ESP0001-023M	PUSH SW I.M	RDS	
	S930	ESP0001-023M	PUSH SW I.M	RDS	
	X901	ECX0004-194KM	RESONATOR I.M		
	X902	ECX0006-000KNJ	RESONATOR		
	BK901	E309782-002SM	BKT	FL HOLDER	
	BK902	E310200-001SM	LED HOLDER	LED HOLDER	
	CN015	EMV5163-006R	CONNECTOR		
	CN301	EMV7172-014R	CONNECTOR		
	CN302	EMV7172-014R	CONNECTOR		
	CN313	QGB1214J1-14S	CONNECTOR		
	CN314	QGB1214J1-08S	CONNECTOR		
	CN401	VMC0332-R33V	CONNECTOR		
	CN402	EMS265-A412	SKT WIRE ASSY	TO C136-2	
	CN403	EMV7160-016	CONNECTOR		
	DI901	QLF0012-001	FL TUBE		
	FS901	E3400-439	FELT SPACER	SPACER	
	FS902	E3400-439	FELT SPACER	SPACER	
	FW401	VWSC12-083K3K	FLAT WIRE		
	FW402	EWR33D-40LS	FLAT WIRE		
	IC231	HA12136A	IC		

[illegible]

■ Electrical parts List (CD AMP P.C.B.)

BLOCK NO. 04 [] [] [] []

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C602	QCZ0205-155	ML C CAP 1/M	1.5MF	
C603	QFV41HJ-1042M	TF CAPACITOR	.10MF 5% 50V	
C605	EETB1EM-106E	E.CAPA. 1.M		
C606	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
C607	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
C608	EETB1HM-105E	E.CAPA. 1.M		
C609	QCB1HK-101Y	C CAPACITOR	100PF 10% 50V	
C610	QFLC1HJ-2732M	M CAPACITOR	.027MF 5% 50V	
C611	QCXB1CM-472Y	C.CAPACITOR	4700PF 20% 16V	
C612	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C613	QCB1HK-331Y	C CAPACITOR	330PF 10% 50V	
C614	QFV41HJ-1042M	TF CAPACITOR	.10MF 5% 50V	
C615	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C616	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C617	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C618	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C619	QCB1HK-271Y	C CAPACITOR	270PF 10% 50V	
C620	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
C621	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
C622	QCF21HP-223A	C.CAPA. 1.M	.022MF +80:-20%	
C623	QFV41HJ-1042M	TF CAPACITOR	.10MF 5% 50V	
C625	QCZ0205-155	ML C CAP 1/M	1.5MF	
C630	QET41AM-226	E CAPACITOR	22MF 20% 10V	
C631	QET41AM-477	E CAPACITOR	470MF 20% 10V	
C632	QEK61AM-2272M	E CAPACITOR	220MF 20% 10V	
C636	EETB1AM-107E	E.CAPA. 1.M		
C641	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C642	QFLC1HJ-1032M	M CAPACITOR	.010MF 5% 50V	
C651	QCS11HJ-120	C CAPACITOR	12PF 5% 50V	
C652	QCS11HJ-120	C CAPACITOR	12PF 5% 50V	
C653	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C655	QFV41HJ-1042M	TF CAPACITOR	.10MF 5% 50V	
C661	QCB1HK-471Y	C CAPACITOR	470PF 10% 50V	
C662	QFV41HJ-1042M	TF CAPACITOR	.10MF 5% 50V	
C663	QFLC1HJ-2232M	M CAPACITOR	.022MF 5% 50V	
C664	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C665	QFV41HJ-1042M	TF CAPACITOR	.10MF 5% 50V	
C671	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C672	QCXB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C674	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C675	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C679	QEK61AM-1072M	E CAPACITOR	100MF 20% 10V	
C693	QEK61AM-2272M	E CAPACITOR	220MF 20% 10V	
C694	QCFB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
D631	MTZ5.6JB	ZENER DIODE		
Q601	2SA952(L,K)	TRANSISTOR		
Q632	2SC2060(Q,R)	TR.1.M		
R601	QRD161J-123	C RESISTOR	12K 5% 1/4W	
R603	QRD161J-125	C.RES. 1.M	1.2M 5% 1/4W	
R605	QRD161J-274	C RESISTOR	270K 5% 1/4W	
R606	QRD161J-154	C RESISTOR	150K 5% 1/4W	
R607	QRD161J-273	C RESISTOR	27K 5% 1/4W	
R609	QRD161J-114	C.RES. 1.M	110K 5% 1/4W	
R610	QRD161J-104	C RESISTOR	100K 5% 1/4W	
R611	QRD161J-473	C RESISTOR	47K 5% 1/4W	

BLOCK NO. 04 [] [] [] []

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R612	QRD161J-822	C RESISTOR	8.2K 5% 1/4W	
R613	QRD167J-121	C RESISTOR	120 5% 1/4W	
R614	QRD161J-100	C RESISTOR	10 5% 1/4W	
P615	QRD161J-120	C RESISTOR	12 5% 1/4W	
R616	QRD161J-910Y	C RESISTOR	91 5% 1/4W	
R632	QRD161J-151	C RESISTOR	150 5% 1/4W	
R641	QRD161J-683	C RESISTOR	68K 5% 1/4W	
R642	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R643	QRD161J-822	C RESISTOR	8.2K 5% 1/4W	
R644	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R645	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R646	QRD161J-222	C RESISTOR	2.2K 5% 1/4W	
R647	QRD161J-472	C RESISTOR	4.7K 5% 1/4W	
R650	QRD161J-182	C RESISTOR	1.8K 5% 1/4W	
R651	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R652	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R653	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R660	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R661	QRD161J-683	C RESISTOR	68K 5% 1/4W	
R662	QRD167J-275	C.RES. 1.M	2.7M 5% 1/4W	
R663	QRD161J-124	C RESISTOR	120K 5% 1/4W	
R664	QRD161J-471	C RESISTOR	470 5% 1/4W	
R666	QRD161J-220	C RESISTOR	22 5% 1/4W	
R667	QRD161J-220	C RESISTOR	22 5% 1/4W	
R671	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R672	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R692	QRD161J-271	C RESISTOR	270 5% 1/4W	
X651	ECX0169-344EF	RESONATOR 1.M		
CN601	EMV7171-115R	15FFC CONNECTOR		
CN602	VMC0075-006	6P PLUG ASSY		
CN603	VMC0163-R07	CONNECTOR		
CN604	VMC0163-R11	CONNECTOR		
IC601	AN8806SB	IC		
IC602	BA6897FP-W	IC		
IC603	MN35510	IC		
SP601	VYH7237-001	IC HOLDER		
SP602	VYH7237-003	IC HOLDER		
SP603	VYH7237-003	IC HOLDER		
TP601	QMV5004-002K	CONNECTOR		
TW601	FMWF102-001			

■ Electrical parts List (CD Control P.C.B.)

BLOCK NO. 05

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 801	QEK61AM-107ZM	E CAPACITOR	100MF 20% 10V	
C 802	QEK61EM-475ZM	E CAPACITOR	4.7MF 20% 25V	
C 803	QFLB1HJ-102	M CAPACITOR	1000PF 5% 50V	
C 804	QCFB1HZ-104Y	C CAPACITOR	.10MF +80%-20%	
C 805	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C 806	QEK61CM-476	E CAPACITOR	47MF 20% 16V	
C 807	QEK61CM-476	E CAPACITOR	47MF 20% 16V	
C 808	QFLB1HJ-102	M CAPACITOR	1000PF 5% 50V	
C 810	QCZ0205-155	ML C CAPACITOR	1.5MF	
C 811	QCZ0205-155	ML C CAPACITOR	1.5MF	
C 813	QCVB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C 821	QCGB1HK-102	C CAPACITOR	1000PF 10% 50V	
CN801	VMC0163-R10	CONNECTOR	TO MICON	
CN802	VMC0289-P07	CONNECTOR	TO SWITCH PWB	
CN803	VMC0324-12310	CONNECTOR	TO CAM SW PWB	
IC801	UPD65612GB-208	IC		
IC802	TA8409S	IC		
IC803	TA8409S	IC		
L 801	VQP0018-100	INDUCTOR		
L 802	VQP0033-100Z	INDUCTOR		
L 803	VQP0033-100Z	INDUCTOR		
L 804	VQP0033-100Z	INDUCTOR		
R 805	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 806	QRD161J-471	C RESISTOR	470 5% 1/4W	
R 807	QRD161J-471	C RESISTOR	470 5% 1/4W	
R 808	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 810	QRD161J-684	C RESISTOR	680K 5% 1/4W	
R 811	QRD161J-105	C RESISTOR	1.0M 5% 1/4W	
R 813	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 814	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 815	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 816	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 817	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 818	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 819	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 820	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 821	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 822	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 823	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 824	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 825	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 826	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 827	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 828	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 829	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 830	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 832	QRD161J-181	C RESISTOR	180 5% 1/4W	
R 833	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 834	QRD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 839	QRD167J-332	C RESISTOR	3.3K 5% 1/4W	
R 840	QRD167J-562	C RESISTOR	5.6K 5% 1/4W	

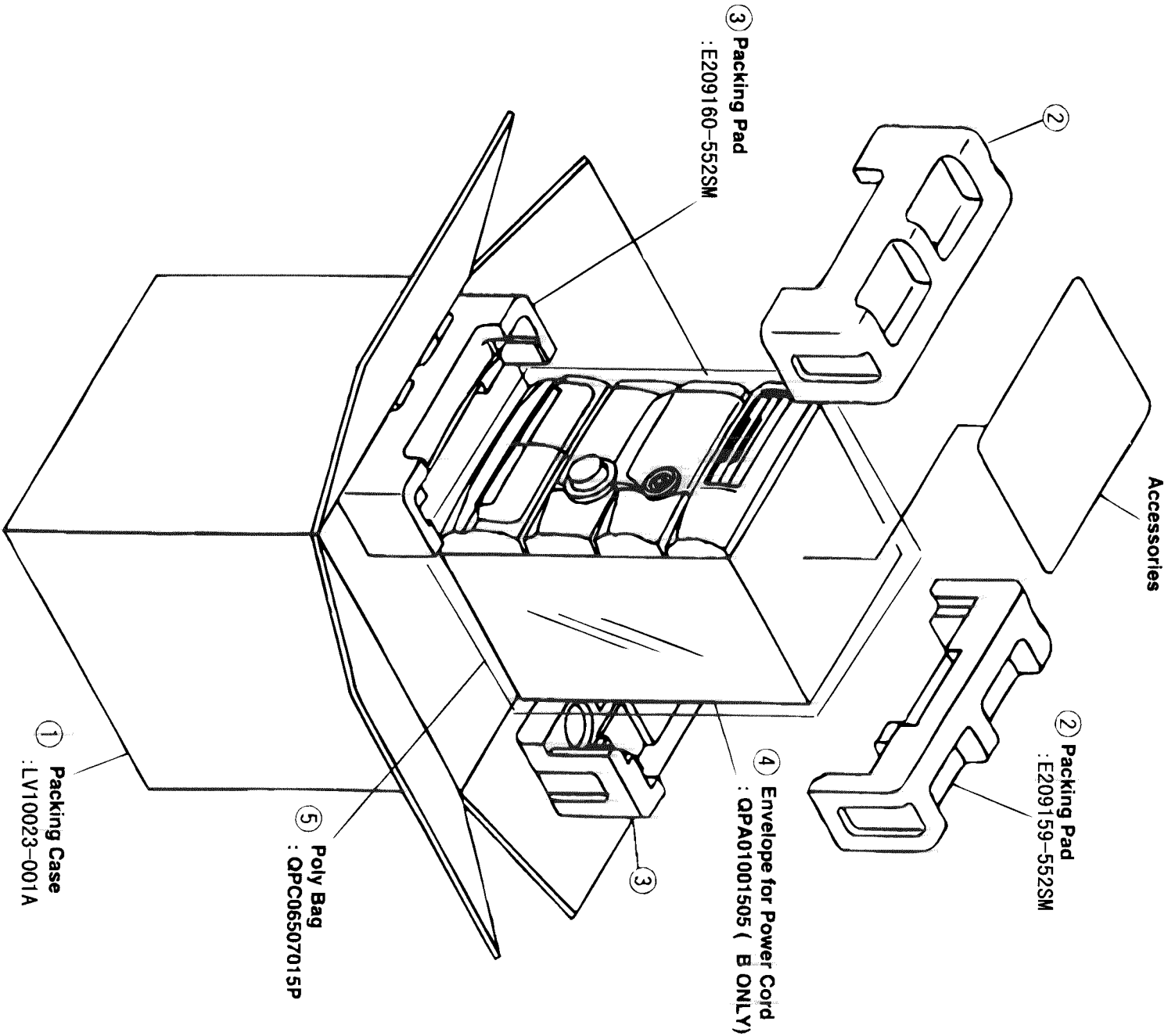
■ Electrical parts List (CD Select P.C.B.)

BLOCK NO. 06

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN804	QGB2016J1-07	CONNECTOR		
SW 1	QSW0507-001	SWITCH		
SW 2	QSW0507-001	SWITCH		
SW 3	QSW0507-001	SWITCH		
SW 4	QSW0507-001	SWITCH		
SW 5	QSW0507-001	SWITCH		
SW 6	QSW0507-001	SWITCH		

Packing Materials and Parts Numbers

Block No.	M	5	M	M
Block No.	M	6	M	M



BLOCK NO.

M	6	M	M						
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REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A 1	GV10001-008A	INST.BOOK		1	B	
	GV10001-006A	INST.BOOK		1	E	
	GV10001-009A	INST.BOOK		1	EE	
	GV10001-007A	INST.BOOK		1	EN	
A 2	QAL0014-001	AM LOOP ANT		1		
A 3	EMP503--001	ANT.WIRE		1		
A 4	BT-54008-1	W.CARD		1	B,E,EN	
A 5	E43486-340A	SAFETY I.SHEET		1		
A 6	E309706-002	POLY BAG		1		
A 7	RM-SED601RU	REMOCON		1		
A 8	R6SPT72STS	BATTERY		1		